

USER MANUAL

04 CHANNELS LCD DIGITAL VIDEO RECORDER (DETACHABLE)

INSTRUCTION MANUAL

To obtain the best performance and ensure device function correctly, please read this instruction manual carefully and completely.

INSTRUCTION MANUAL

To obtain the best performance and ensure device function correctly, please read this instruction manual carefully and completely.

FCC Compliance

USER-INSTALLER CAUTION: YOUR AUTHORITY TO OPERATE THIS FCC VERIFIED EQUIPMENT COULD BE VOIDED IF YOU MAKE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE TO PART 15 OF THE FCC RULES.

NOTE: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

THIS CLASS A DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.



WARNINGS, CAUTIONS & COPYRIGHT

WARNINGS



TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

Explanation of Graphical Symbols

	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insinuated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral rhombus is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

USERS OF THE SYSTEM ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES COIPCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNALS. ULTRAK SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS SYSTEM IN VIOLATION OF CURRENT LAWS AND STATUTES.

COPYRIGHT

THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

TABLE OF CONTENTS

1	INTRODUCTION	5
1.1	FEATURE	5
1.2	SPECIFICATION	5
2	HARDWARE OVERVIEW	8
2.1	FRONT & BEHIND PANEL	8
2.2	LCD CONNECTION DESCRIPTIO	9
2.3	DVR CONNECTION DESCRIPTIO	10
2.3	CAMERA&MOTION LOOPING	11
2.4	EXTERAL ALARM	11
2.5	IR REMOTE CONTROL	13
2.6	PTZ (PAN, TILT AND ZOOM) CAMERA	14
3	SYSTEM SETUP	15
3.1	MENU SETUP INTERFACE(GUI)	15
3.2	LIVE VIEWING AND POP-UP MENU	17
3.3	CAMERA SETUP	19
3.4	MOTION SETUP	21
3.5	RECORD SETUP	22
3.6	ALARM SETUP	25
3.7	HARD DISK MANAGEMENT SETUP	26
3.8	NETWORK SETUP	27
3.9	BACKUP SETUP	29
3.10	SYSTEM SETUP	31
4	DVR PLAYBACK	34
4.1	TIME SEARCH	35
4.2	EVENT SEARCH	36
5	BACKUP PLAYBACK	37
5.1	MAIN SCREEN SETTING	37
5.2	USB & LOCAL BACKUP FILE PLAYBACK	41
5.3	BACKUP FILE TO AVI	43
6	NETWORK VIEWING & PLAYBACK	44
6.1	IP ADDRESS SETUP ON PC SITE	44
6.2	OPTIONAL MICROSOFT INTERNET EXPLORER SETUP	46
6.3	LOGIN	47
6.4	REMOTE CONTROL	48
6.5	CONFIGURE	53
7	3GPP APPLICATION & SETTING	61
8	OPERATING INSTRUCTIONS & OSD ARCHITECTURE	63

APPENDIX A: RECORDING TIME LAPSE (HOURS)..... 66
CIF 66
Half D1 67
APPENDIX B: HDD COMPATIBLE TABLE 68
APPENDIX C: ERROR MESSAGE LIST..... 68

1 INTRODUCTION

1.1 FEATURE

- H.264 video compression.
- 120 FPS
- Recording quality/ rate adjustment per channel available.
- Support CMS (Central Management System)/ 3GPP/ iphone / java.
- Audio Backup / Audio Streaming.
- Graphic User Interface (GUI).
- Support time-point backup function under Ethernet remote control mode. User can select any time period to process backup from remote side.
- Support time-search & event-search function under Ethernet remote control mode.
- Up to four online clients for independent remote control; individual live-time, play-back & time-search function available.
- Support PPPoE/ Static/ DHCP IP & DDNS.
- Real Triplex, recording/ live-time & playback operation at the same time available.
- DVR and LCD Monitor 2 in 1 Design-Saving Your Space and Get Rid of Cable Messes
- Monitor and DVR can be taken apart and work independently

1.2 SPECIFICATION

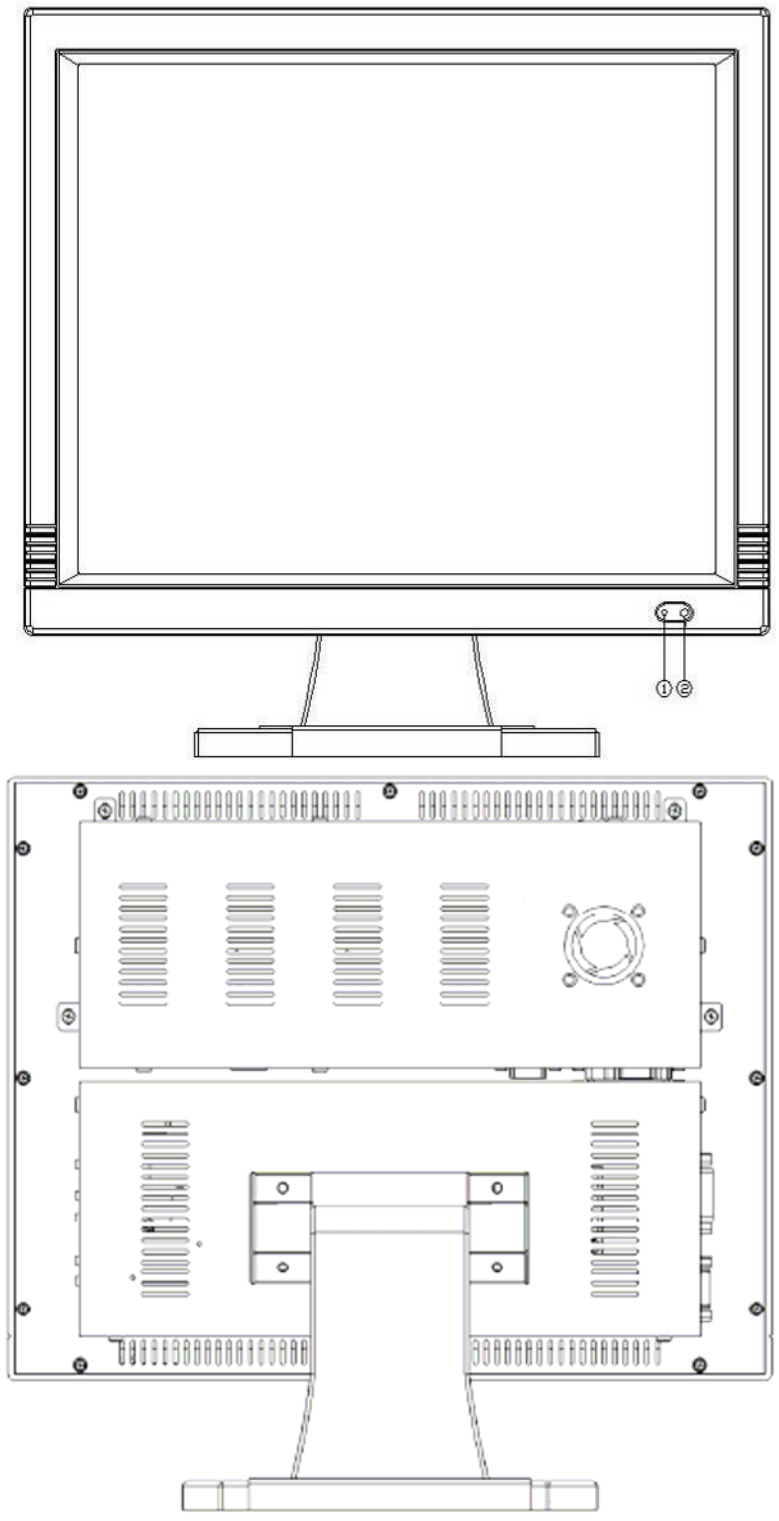
VIDEO		
MODE	Triplex	
IMAGE SYSTEM	NTSC	PAL
LIVE-TIME RESOLUTION	720x480	720×576
LIVE-TIME DISPLAY RATE	4 × 30 Frame / Sec	4 × 25 Frame / Sec
SPLIT SCREEN	1, 4	
VIDEO INPUT	BNC × 4	
VIDEO LOOPING	No	
VIDEO OUTPUT (BNC)	BNC × 1	
VIDEO OUTPUT (SPOT MONITOR)	No	
VIDEO OUTPUT (VGA)	YES	
AUDIO		
AUDIO INPUT	RCA × 1	
AUDIO OUTPUT	RCA × 1	
AUDIO BACKUP	Yes	
AUDIO STREAMING	Yes	
RECORDING		

COMPRESSION TYPE	H.264		
RECORDING RESOLUTION (D1)	720×480	720×576	
RECORDING RESOLUTION (HALF D1)	720×240	720×288	
RECORDING RESOLUTION (CIF)	360x240	360x288	
RECORDING RATE (D1)	720 x 480 up to 30 FPS	720 x 576 up to 25 FPS	
RECORDING RATE (HALF D1)	720 x 240 up to 60 FPS	720 x 288 up to 50 FPS	
RECORDING RATE (CIF)	360 x 240 up to 120 FPS	360 x 288 up to 100 FPS	
COMPRESSION RATE	Low : 1 K Bytes Medium : 2.2 K Bytes High : 3.2 K Bytes Best : 6 K Bytes		
RECORDING MODE	Manual / Schedule / Alarm		
PLAYBACK & SEARCH			
PLAYBACK SPEED	Fast Forward X 2 X 4 X 8 Fast Backward X 2 X 4 X 8 field by field Playback Pause		
TIME SEARCH	Yes		
EVENT SEARCH	Yes		
EVENT LIST	3000 records per H.D.D (Maximum)		
OSD & CONTROL INTERFACE			
TITLE	8 Characters		
ON SCREEN DISPLAY & SETUP	Time / Date / Setup Menu		
GRAPHIC USER INTERFACE (GUI)	Yes		
DVR CONTROL PANEL	No		
MOUSE	Yes		
IR REMOTE CONTROLLER	Yes		
IE BROWSER	Yes		
PLAYER	Yes		
STORAGE & BACKUP DEVICE			
INTERNAL HDD SUPPORT	SATA HDD x 1		
USB BACKUP	Yes		
NETWORK			
ETHERNET	Yes		
ETHERNET COMPRESSION FORMAT	H.264		
IE REMOTE CONTROL	Yes		

NTP	Yes	
DDNS	Yes	
E-MAIL & FTP	Yes	
NETWORK IP	Static/ Dynamic/ PPPoE	
MULTI-REMOTE CLIENT	Yes (4 Clients at the same time available)	
PDA/ CELL PHONE SUPPORT	Yes (MPEG4)	
3GPP/ iphone/ java	Yes (MPEG4)	
ALARM		
ALARM INPUT	4 In (NO/ NC)	
ALARM OUTPUT	1 Out (NO/ NC)	
MOTION DETECTION	Yes	
MOTION DETECTION AREA	30 x 24 grids	
MOTION DETECTION SENSITIVITY	1-100	
VIDEO LOSS DETECTION	Yes	
ALARM RECORDING	Yes	
BUZZER	Yes	
SETUP & OTHER FUNCTIONS		
DAYLIGHT SAVING TIME	Yes	
PTZ CONTROL	Yes	
RS-232	No	
RS-485	Yes	
DIGITAL ZOOM	Yes	
PASSWORD CONTROL	Three levels, one for system, one for HDD format and the other for Network Password.	
KEY-LOCK	Yes	
MULTI-LANGUAGE	Yes	
FIRMWARE UPDATE	USB Host & Update on line	
DISPLAY		
LCD Panel / Resolution	15” TFT LCD / 1024*768	17” TFT LCD / 1280*1024
LCD Brightness / Contrastion	250nit / 700:1	300nit / 800:1
View Angle(L/R/D/U)	70/70/60/65	85/85/75/85
POWER INPUT/ CONSUMPTION (W)	DC 12V / 5A	
DIMENSIONS (W x H x D)mm	360 × 28 × 70 360 × 345 × 195(Lnclud Stand)	392 × 327 × 75 392 × 365 × 193(Lnclud Stand)
WEIGHT (kg)	5Kg (Without HDD)	6Kg (Without HDD)
OPERATION TEMPERATURE	0 - 45 °C	

2 HARDWARE OVERVIEW

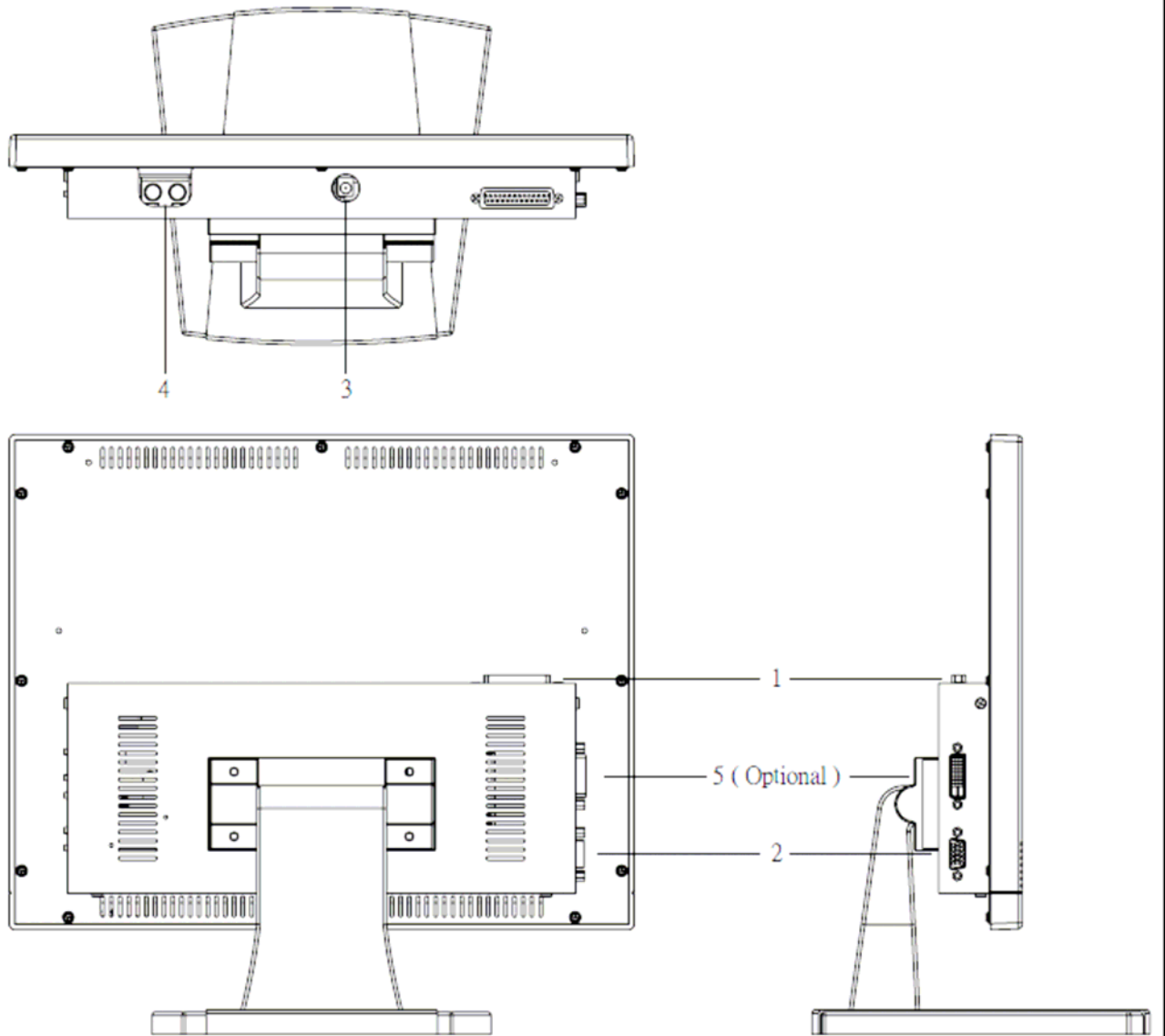
2.1 FRONT & BEHIND PANEL



DVR OPERATION

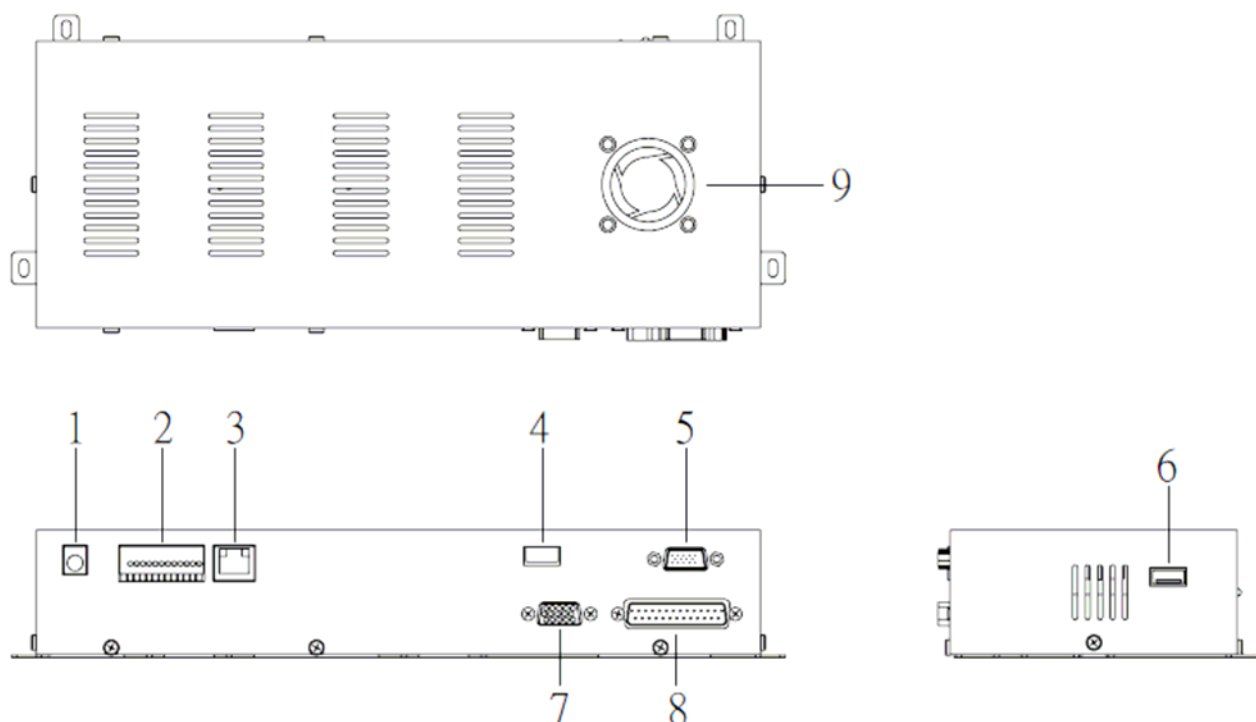
NO.	LABEL	OPERATION	PTZ
1	POWER	Led Red Indicator(Lights to have the power to provide)	
2	IR	IR Sensor For Remote Control.	



2.2 LCD CONNECTION DESCRIPTION



NO.	LABEL	OPERATION
1	DVR CONNECTOR	DVR and LCD signal input / output connection locations .
2	PC IN	Computer's VGA signal input .(SOURCE Switch)
3	LCD POWER	Power switcher: DC 12V 5A / 50-60 Hz input.
4	AUDIO IN	Audio input.
5	DVI IN(Optional)	Computer's DVI signal input .(Menu Switch)

2.3 DVR CONNECTION DESCRIPTION



NO.	LABEL	OPERATION
1	DVR POWER	Power switcher: DC 12V 5A / 50-60 Hz input.
2	RS-485/ ALARM/ RELAY	4 pin connector for external control unit, 5 pin connector for Alarm input and 3 pin connector for relay
3	ETHERNET	RJ-45 connector for network.
4		USB Connector.
5	TOTAL SIGNAL IN/OUT	Video and Audio signal input / output.
6		USB Mouse Connector (Only by supplied mouse/PS2).
7	DVR OUT	DVR's VGA signal output.
8	DVR CONNECTOR	DVR and LCD signal input / output connection locations.
9	FAN	DVR with heat.

NOTE: Please plug in the supplied mouse to DVR mouse connector before turn on the DVR. DO NOT REMOVE and PLUG IN the supplied mouse while DVR is operating.

2.3 CAMERA&MOTION LOOPING

Here recommend link cameras by sequence to avoid unexpected image broken, from CH1, CH2, CH3, CH4

2.4 EXTERAL ALARM

There are three types of alarms that the system can be configured to handle. They are Motion detection Alarm, External Alarm and Video Loss Alarm.

A. Motion detection Alarm and External Alarm:

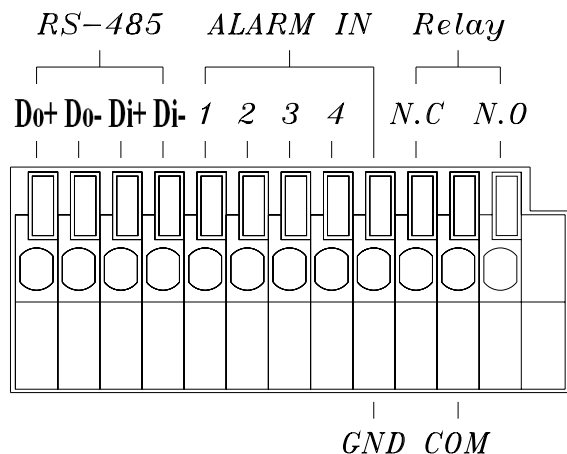
When motion detection or External Alarm was triggered, there are 5 possible actions will be taken.

- a. Changes recording speed as alarm recording speed.
- b. Monitor will display corresponding full screen alarm channel, it will switch automatic mode to manual mode if buttons pressing activity occurred in 5 seconds.
- c. Relays can be activated by motion detection or external alarm when turning on.
- d. The camera title will be transformed into color of yellow when motion is happening, "ALARM" text will show up when external alarm is triggered.

B. Video Loss Alarm:

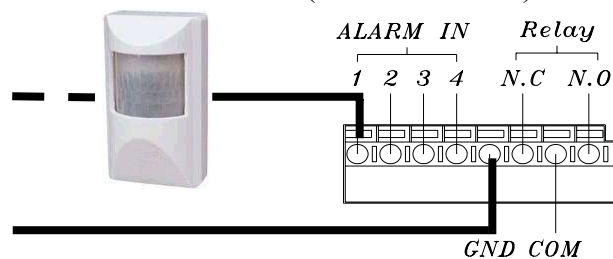
The default setting of Video Loss alarm is enabled.

Terminal Connectors:

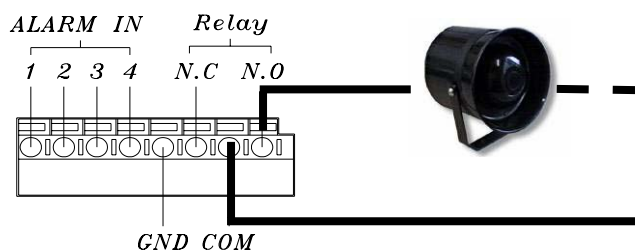


Do+	RS-485 sends +
Do-	RS-485 sends -
Di+	RS-485 receives -
Di-	RS-485 receives +
ALARM1-4	Camera alarm input.
GND	GND.
N.C	Relay N.C.
COM	Relay COM
N.O	Relay N.O.

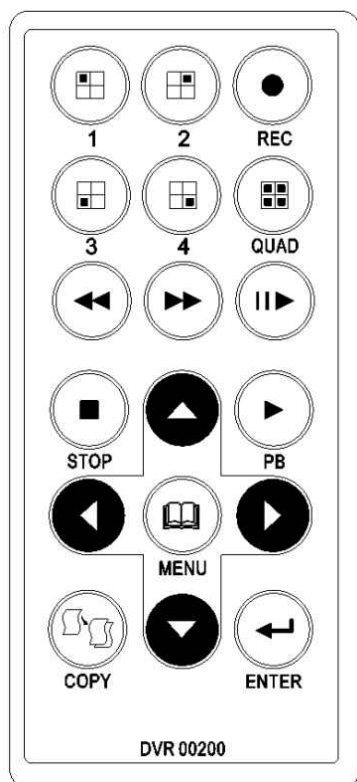
EXAMPLE 1 : Connect Alarm In One with PIR (Passive Infrared).












EXAMPLE 2 : Connect with Alarm Siren at Relay N.O.



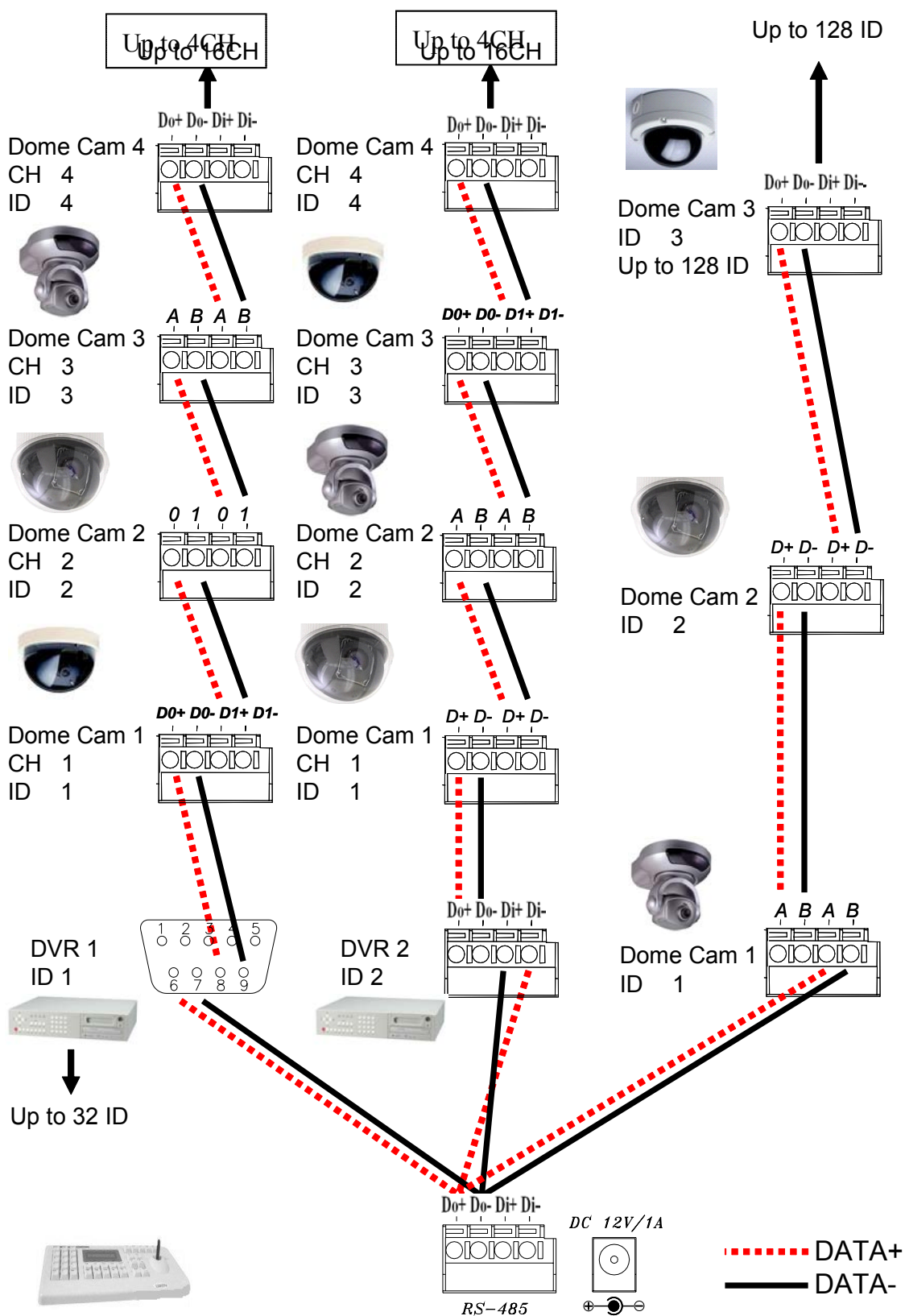
2.5 IR REMOTE CONTROL



ITEM	
REC	Press REC to start recording and press twice to stop.
1 - 4	Select channel 1-4 with full screen.
QUAD	Fast backward.
	Picture by picture backward.
	Picture by picture forward.
	Fast Forward.
	Play video forward.
COPY	Switch channel format(Data Backup).
	Move upward or increase the number.
	Move rightward or increase the number.
	Move downward or decrease the number.
	Move leftward or decrease the number.
	Enter selected items.
MENU	Enter or Exit Main Menu.
STOP	Stop the playback.

2.6 PTZ (PAN, TILT AND ZOOM) CAMERA

Following diagram for DVR connect between PTZ camera & joystick controller, for DVR to control PTZ camera please make sure the CAMERA ID, BANDRATE (default at 9600 bps) and RS-485 cable.

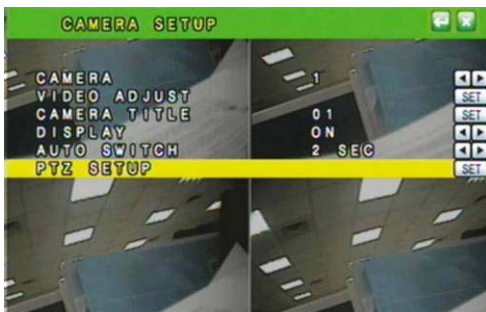


3 SYSTEM SETUP

3.1 MENU SETUP INTERFACE(GUI)



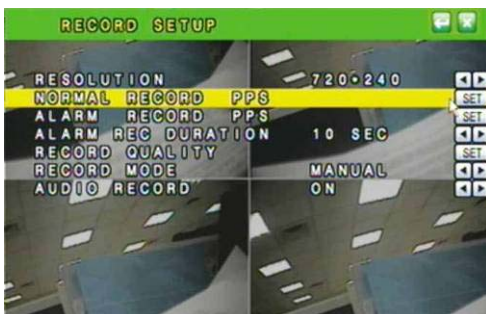
A.  CAMERA SET



B.  MOTION SETUP



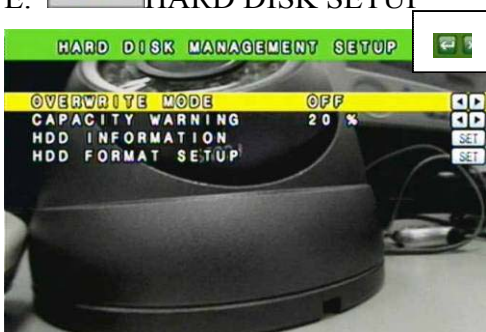
C.  RECORD SETUP



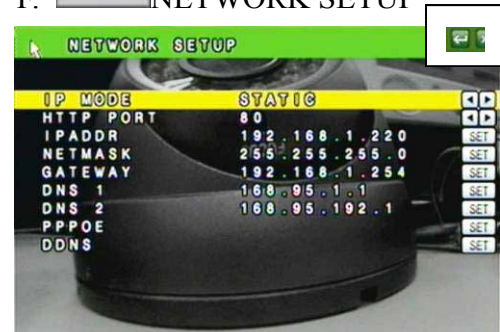
D.  ALARM SETUP



E.  HARD DISK SETUP



F.  NETWORK SETUP

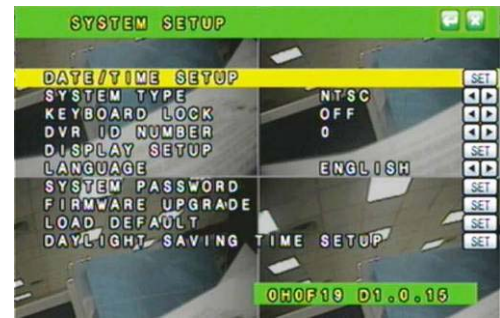




G. BACKUP SETUP



H. SYSTEM SETUP



3.2 LIVE VIEWING AND POP-UP MENU



NOTE : The pop-up menu can be activated by moving the mouse cursor to the bottom of the live viewing screen.



A. GUI MENU BAR

With live viewing mode, press this button to get into the GUI menu.



B. DISK INFORMATION

With live viewing mode, press this button to display disk information.



C. DIGITAL ZOOM

In the full screen mode, left-click the button of the mouse to pull a range to zoom in or zoom out the image. User can right-click the button of the mouse to disable this function. (NOTE: Using the mouse to operate digital zoom can zoom in to max. 16 times.) Moreover, user can also use compound key on the front panel to perform this function. (First, click ENTER/COPY Key and then click ▲▼◀▶ key to select zoom in or zoom out position. Finally, click ENTER/COPY key again to complete the setting. Moreover, click MENU Key to disable digital zoom function. Using the panel key to perform zoom in function is fixed at 2 times.)

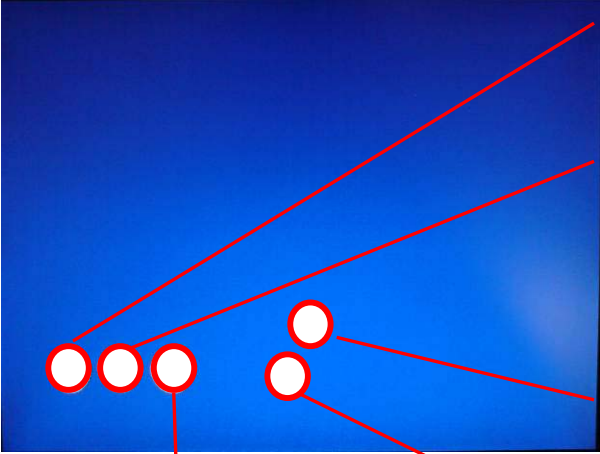


D. PTZ CONTROLLER


Within live-viewing mode, Clicks this button to get into the PTZ setup menu. User can also use PTZ key on the front panel to perform this function. Moreover, user can right-click the button of the mouse or press the PTZ key on the front panel again to exit PTZ Setup.


NOTE : Only for the camera supported PTZ function.


PTZ CONTROL



The diagram shows a blue background with four white circles. Red lines connect these circles to text boxes on the right. The top-left circle is connected to the 'PRE' key box. The top-right circle is connected to the 'PTZ' key box. The bottom-left circle is connected to the 'Left-control direction' box. The bottom-right circle is connected to the 'To process AUTO function' box.

User can press  key to process Process PRESET POINT SETUP.

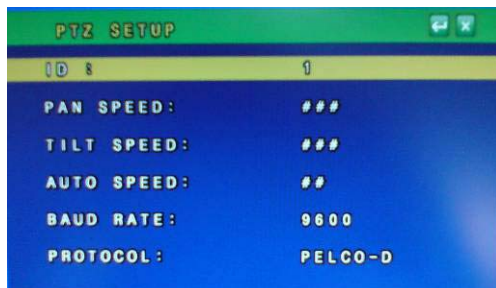
Under PTZ control mode, press  Into PTZ setup menu. User can also press the “MENU” key on the DVR front panel to get into PTZ setup menu.

Left-control direction.” ⬅️ ⬇️ ➡️ ⬆️ “Mouse wheel control the distance.”  “In the center

To process AUTO function.

With the mouse wheel to switch channels.

PTZ SETUP MENU



- ID: Use the mouse wheel to change the ID location speed.
- PAN SPEED: Use the mouse wheel to change the left-right speed.
- TILT SPEED: Use the mouse wheel to change the up-down speed.
- AUTO SPEED: Use the mouse wheel to change the auto patrol speed.
- BAUD RATE: Use the mouse wheel to change the BAUD rate.
- PROTOCOL: Use the mouse wheel to change the connection protocol.



E. AUDIO CONTROL

Press this button to turn the audio on or off.



F. DISPLAY CONTROL

Within live-viewing or playback mode, use display control to switch the camera channel.



G. RECORD AND PLAYBACK CONTROL

Same as front panel controller and remote controller.



3.3 CAMERA SETUP



Press ▲ or ▼ to select items.
Press ◀ or ▶ to change values.
Press SET to see more options.

A. CAMERA

Press ◀ or ▶ / mouse wheel to switch channels.

B. VIDEO ADJUST



B-1. CONTRAST

Press ◀ or ▶ / mouse wheel to change contrast level.

B-2. BRIGHTNESS

Press ◀ or ▶ / mouse wheel to change brightness level.

B-3. HUE

Press ◀ or ▶ / mouse wheel to change HUE level.

B-4. COLOR

Press ◀ or ▶ / mouse wheel to change color level.

B-5. SHARPNESS

Press ◀ or ▶ / mouse wheel to change sharpness level.

C. CAMERA TITLE



Use mouse to select and change character.

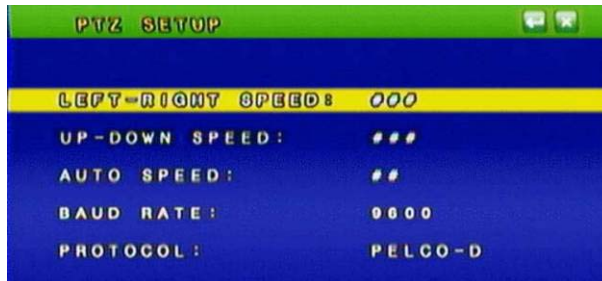
D. DISPLAY

Press ◀ or ▶ to/ mouse wheel change value for the corresponding camera would be displayed on the screen or not.

E. AUTO SWITCH

Press ◀ or ▶ / mouse wheel to ON/OFF auto switch and the switch sec..

F. PTZ SETUP



LEFT-RIGHT SPEED: Use the mouse wheel to change the left-right speed.

UP-DOWN SPEED: Use the mouse wheel to change the up-down speed.

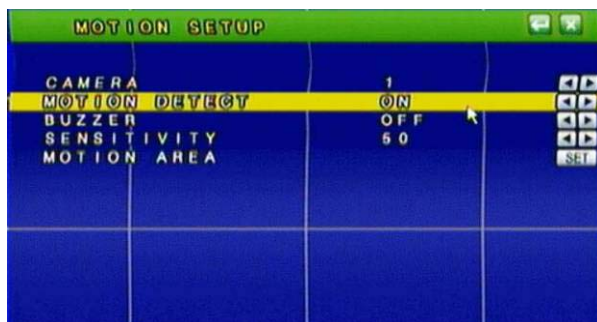
AUTO SPEED: Use the mouse wheel to change the auto patrol speed.

BAUD RATE: Use the mouse wheel to change the BAUD rate.

PROTOCOL: Use the mouse wheel to change the connection protocol.



MOTION SETUP



Press ▲ or ▼ to select items.
Press ◀ or ▶ to change values.
Press SET to see more options.

A. CAMERA

Press ◀ or ▶ / mouse wheel to switch channels.

B. MOTION DETECT

Press ◀ or ▶ / mouse wheel to change value for motion detect function.

C. BUZZER

Press ◀ or ▶ / mouse wheel to change value for buzzer while motion detected.

D. SENSITIVITY

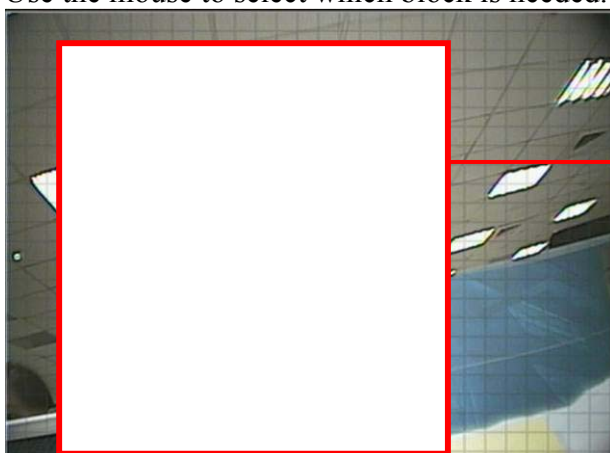
Press ◀ or ▶ / mouse wheel to change sensitivity value from 001 (minimum) to 100 (maximum).

E. AREA SETUP

1. Press **SET** to enter Motion Area Setting. (**Note: The default setting of all area is "MOTION ON".**)

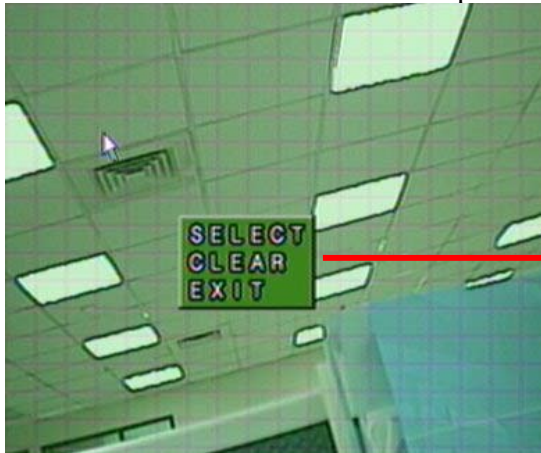


2. Use the mouse to select which block is needed.



The green area shows the area without motion detection.

3. Left-Click the mouse to see more options or exit the setup.



SELECT: Cancel the selected area.

CLEAR: Select the area without motion detection.

EXIT: Exit the motion detection setup.

3.5



RECORD SETUP



Press ▲ or ▼ to select items.
Press ◀ or ▶ to change values.
Press SET to see more options.

A. RESOULTION

Press ◀ or ▶ / mouse wheel to switch record resolution.

720 x 480 (NTSC)/ 720 x 576 (PAL).

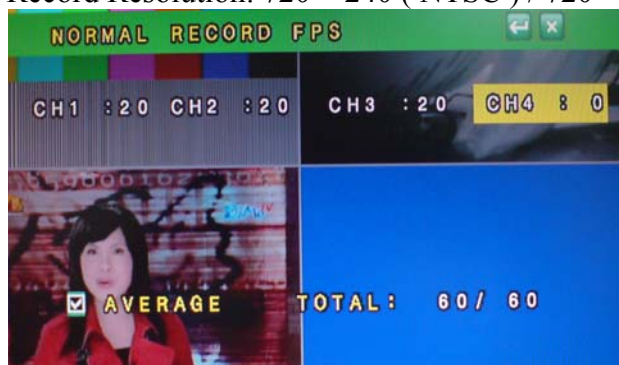
720 x 240 (NTSC)/ 720 x 288 (PAL).

360 x 240 (NTSC)/ 360 x 288 (PAL).

B. NORMAL RECORD FPS

Press **SET** to change the FPS in normal recording. User can click “AVERAGE” to set FPS automatically by system or change the FPS for each channel manually.

Record Resolution: 720×240 (NTSC) / 720×288 (PAL)



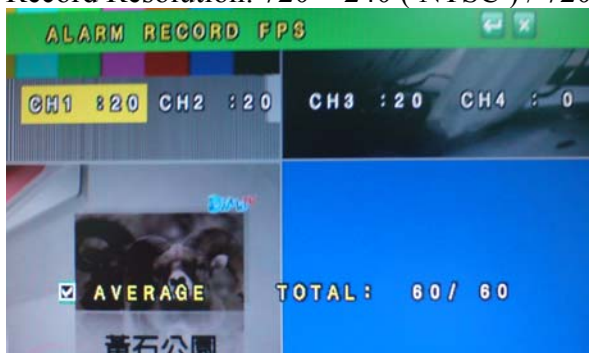
Record Resolution: 360×240 (NTSC) / 360×288 (PAL)



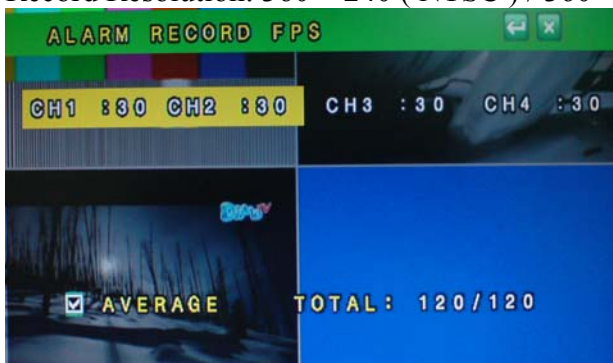
C. ALARM RECORD FPS

Press **SET** to change the FPS in alarm recording. User can click “AVERAGE” to set FPS automatically by system or change the FPS for each channel manually.

Record Resolution: 720×240 (NTSC) / 720×288 (PAL)



Record Resolution: 360×240 (NTSC) / 360×288 (PAL)



D. ALARM RECORD DURATION

Press ◀ or ▶ to set dwell time of alarm recording.

E. RECORD QUALITY

Press **SET** to switch image quality of each channel. User can use mouse wheel to change the image quality of each single channel: LOW/ MEDIUM/ HIGH/ BEST, or use “AVERAGE” to switch the image quality of all channels at once.



F. RECORD MODE

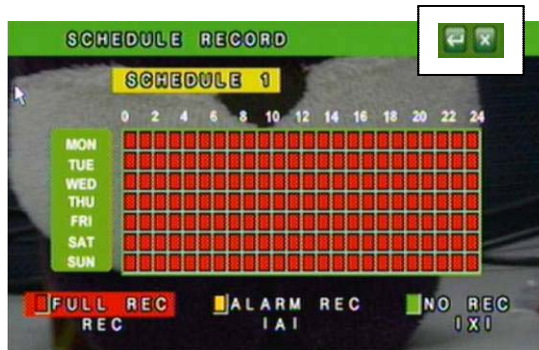
Press ◀ or ▶ to switch record mode to ALWAYS/ MOTION/ SCHEDULE / OFF.


G. AUDIO RECORD

Press ◀ or ▶ to switch AUDIO RECORD ON or OFF.

H. SCHEDULE SETUP

Press **SET** to get into schedule setup menu.

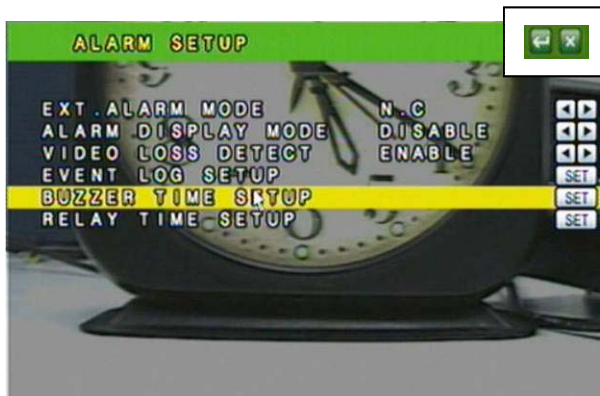


1. Use mouse to select schedule day/ time/ mode.
2. Click  to save change and exit.

3.6



ALARM SETUP



Press ▲ or ▼ to select items.
Press ◀ or ▶ to change values.
Press SET to see more options.

A. EXT. ALARM MODE

Select N.C for “normal close” alarm input, or select N.O for “normal open” alarm input.

B. ALARM DISPLAY MODE

Press ◀ or ▶ / mouse wheel to change value for ALARM DISPLAY MODE with full screen.

C. VIDEO LOSS DETECT

Press ◀ or ▶ / mouse wheel to switch VIDEO LOSS ALARM ON or OFF.

D. EVENT LOG SETUP

Press **SET** to change value for MOTION EVENT / VIDEO LOSS EVENT to ON / OFF.

E. BUZZER TIME SETUP

Press **SET** to set dwell time of BUZZER/ ALARM.

F. RELAY TIME SETUP

Press **SET** to set dwell time of RELAY.

3.7



HARD DISK MANAGEMENT SETUP



Press ▲ or ▼ to select items.
Press ◀ or ▶ to change values.
Press SET to see more options.

A. OVERWRITE MODE

Press ◀ or ▶ to change value OVERWRITE MODE ON or OFF.

B. CAPACITY WARNING (When Overwrite Mode is OFF, Capacity Warning will enable)

Press ◀ or ▶ to change value to 20/ 15/ 10 or 5% with non-overwrite mode. When LEFT RATIO is below the setting, it will enable AUDIBLE ALARM (If AUDIBLE ALARM of BUZZER of ALARM SETUP is ON).

C. HDD INFORMATION

Press SET to display HDD information.

D. HDD FORMAT SETUP



D-1. HDD PASSWORD PROTECT

Press ◀ or ▶ / mouse wheel to change value for hard disk format password protection.

D-2. HDD PASSWORD

Press **SET** then use mouse to change password.

Default password : 1111

D-3. HDD FORMAT

Press **SET** to get into FORMAT setup.

Press YES or NO to execute.

3.8



NETWORK SETUP



Press ▲ or ▼ to select items.
Press ◀ or ▶ to change values.
Press SET to see more options.

A. IP MODE

Press ▲ or ▼ to select items and ◀ or ▶ / mouse wheel to change to STATIC IP or DHCP.

B. HTTP PORT

Press ▲ or ▼ to select items and ◀ or ▶ / mouse wheel to change WEB PAGE PORT.

C. IP ADDR

Press ▲ or ▼ to select items and **SET** to change IP ADDRESS.

D. NETMASK

Press ▲ or ▼ to select items and **SET** to change SUBNET MASK.

E. GATEWAY

Press ▲ or ▼ to select items and **SET** to change Default GATEWAY.

F. DNS1

Press ▲ or ▼ to select items and **SET** to change DNS.

G. DNS2

Press ▲ or ▼ to select items and **SET** to change OTHER DNS.

H. PPPoE



H-1. PPPoE SETTING

Press ◀ or ▶ / mouse wheel to ENABLE / DISABLE PPPoE.

H-2. USER NAME

Use mouse to setup user name for ADSL account.

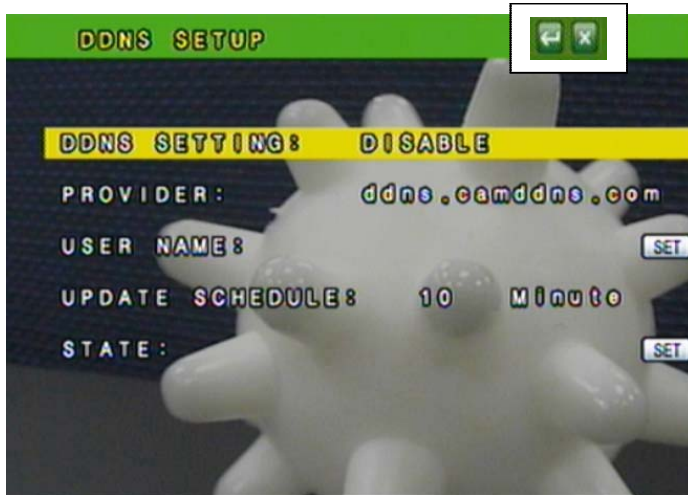
H-3. PASSWORD

Use mouse to setup password for ADSL account.

H-4. STATE

Press SET to display status of PPPoE.

I. DDNS SETUP



I-1. DDNS SETTING : Press ◀ or ▶ / mouse wheel to set DDNS ENABLE / DISABLE.

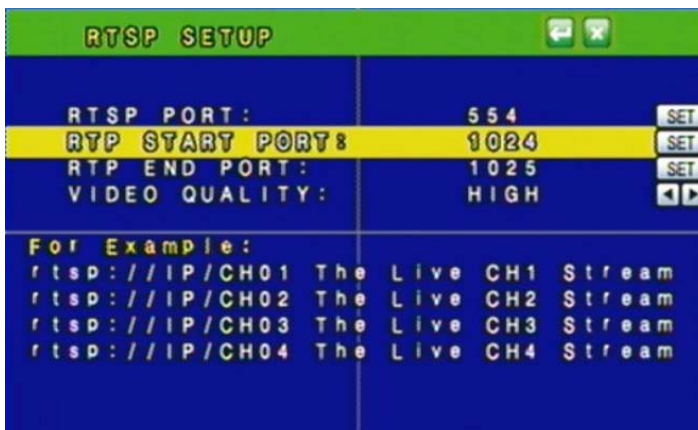
I-2. PROVIDER : Press ◀ or ▶ / mouse wheel to select DDNS provider.

I-3. USER NAME : Press **SET** to setup user name.

I-4. UPDATE SCHEDULE : Use **SET** to dwell time of updating schedule.

I-5. STATE : Press **SET** to display status of DDNS.

J. RTSP SETUP



J-1. RTSP PORT: Press **SET** to setup RTSP port. The default value is 554.

J-2. RTP START PORT: Press **SET** to setup RTP start port.

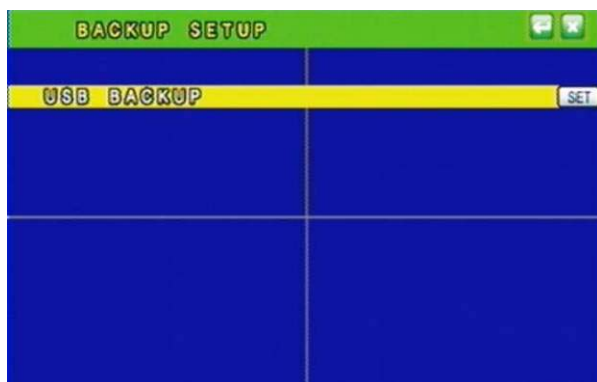
J-3. RTP END PORT: Press **SET** to setup RTP end port.

J-4. VIDEO QUALITY: Press ◀ or ▶ / mouse wheel to select video quality. There are BEST, HIGH, STANDARD, MEDIUM & LOW five options.

3.9



BACKUP SETUP



NOTE: *For function stability, Ethernet remote control function (IE) will be stopped when processing backup function.

*USB DEVICE BACKUP : 3.2MB/ per sec.

A. USB BACKUP


Due to each USB device with different USB driver ICs, their compatibilities differ, too. This system is compatible with most of USB flash memory. If there is compatible issue, please refer to **APPENDIX B**. In addition, please format USB flash memory with FAT32.

USB BACKUP MENU



- User can use the mouse wheel to change the backup Start/ End time。



- Click  to start backup, the total process will be shown on screen.



BACKUP FILE NAME

Each backup file will be named as START TIME.

EXAMPLE: 174624.264 is 17:46:24

AFTER BACKUP

After backup, the system will copy “R6VIEWER.EXE” automatically on USB device for the user to play back backup file.

3.10



SYSTEM SETUP



Press ▲ or ▼ to select items.
Press ◀ or ▶ to change values.
Press SET to see more options.

A. DATE / TIME SETUP

Press **SET** to set DATE / TIME.

A-1. TIME

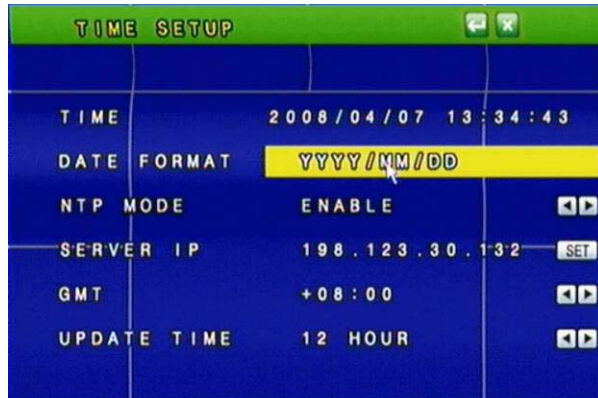
Use mouse wheel to change DATE/ TIME.

A-2. DATE FORMAT

Use mouse wheel to change DATE. There are DD/MM/YYYY, YYYY/MM/DD and MM/DD/YYYY three modes.

A-3. NTP MODE

Use mouse wheel to change NTP. When NTP is enable, use **SET** to change SERVER IP and use ◀ or ▶ / mouse wheel to change GMP and UPDATE TIME.



B. SYSTEM TYPE

Press ◀ or ▶ / mouse wheel to change the system type.

C. KEYBOARD LOCK

Press ◀ or ▶ / mouse wheel to switch ON/ OFF. There are OFF, TYPE 1 and TYPE 2 three options.

OFF : UNLOCK.

TYPE 1 : Only can switch split screen and full screen. The user can operate AUTO and MENU functions as well. However, the password has to be filled in to implement playback mode.

TYPE 2 : LOCK (Except MENU button). The password has to be filled in to implement playback mode.

After KEYBOARD LOCK mode setup, please set up **PASSWORD**

Without password, un-authorized users could access into SYSTEM SETUP and make changes of settings easily.

D. DVR ID NUMBER

Press ◀ or ▶ / mouse wheel to change values.

ID NUMBER is required to make difference of each DVR.

E. DISPLAY SETUP

Press SET to ENABLE or DISABLE display of CAMERA TITLE / DVR STATUS / DATE / TIME.

F. LANGUAGE

Press ◀ or ▶ to change on-screen-display (OSD) language.

G. SYSTEM PASSWORD

Press ▲ or ▼ to select items and ◀ or ▶ to change values.

Default password: 1111.

H. FIRMWARE UPDATE

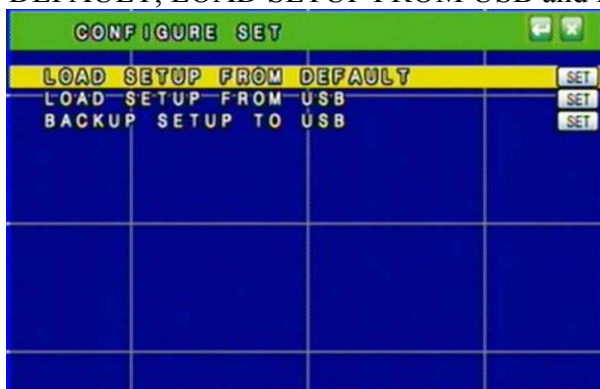
Press **YES** to start firmware update. After updated, the DVR will reboot automatically. At this moment, please do not turn off the DVR manually.

NOTE: 1. Please format USB flash memory with FAT32.

2. For function stability, we suggest user to STOP recording function before processing firmware update function.

I. LOAD DEFAULT

Press **SET** button to entry CONFIGURE SET screen. There are LOAD SETUP FROM DEFAULT, LOAD SETUP FROM USB and BACKUP SETUP TO USB three parts.



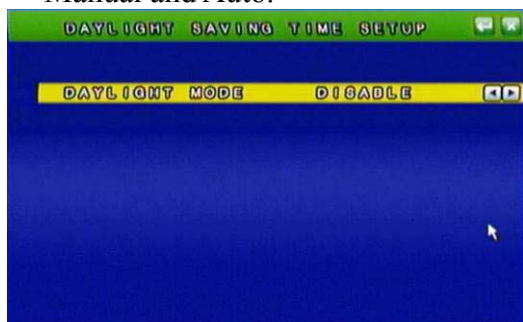
I-1. LOAD SETUP FROM DEFAULT: Press **SET** button to load the setting back to factory default.

I-2. LOAD SETUP FROM USB: Press **SET** button to load the pen drive setting to the current DVR.

I-3. BACKUP SETUP TO USB: Press **SET** button to backup the current DVR setting into pen drive.

J. DAYLIGHT SAVING TIME SETUP

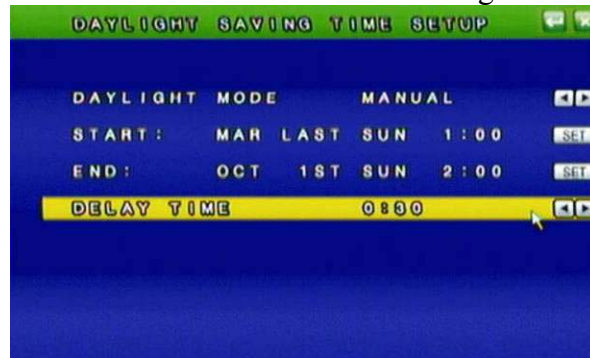
Press ◀ or ▶ / mouse wheel to change the DAYLIGHT MODE option: Disable, Manual and Auto.



J-1. MANUAL MODE

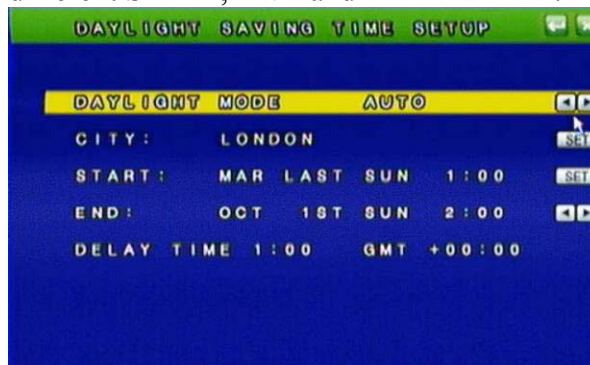
Use **SET** to change the Day Light Saving start and end time.

Press ◀ or ▶ / mouse wheel to change DELAY TIME

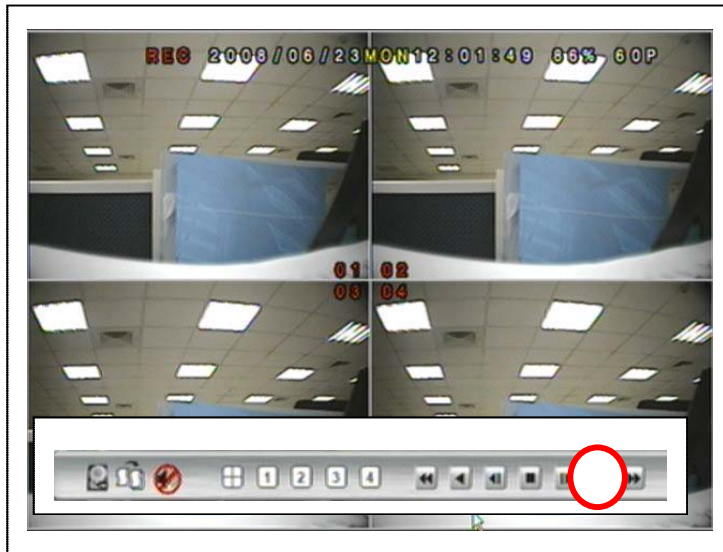


J-2. AUTO MODE

Press ◀ or ▶ / mouse wheel to change CITY option. Different CITY will have different START, END and DELAY TIME.





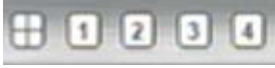



4 DVR PLAYBACK



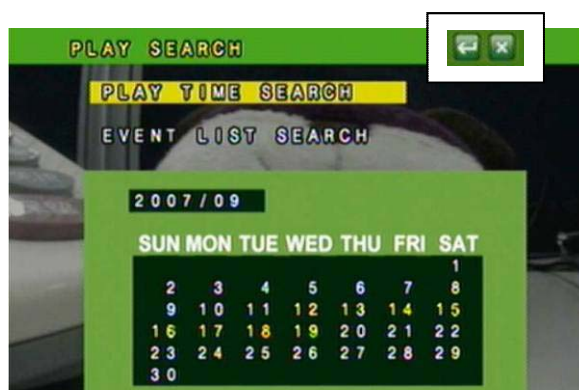
Click the playback button on the pop-up menu.

Note: the pop-up menu can be activated by moving the mouse cursor to the bottom of the live viewing screen.

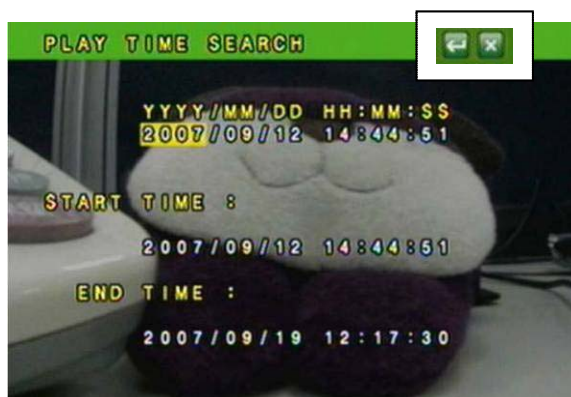
- A.  **DISK INFORMATION**
With playback mode, press this button to display disk and pen drive information.
- B.  **RECORD BACKUP**
With playback mode, press this button to backup record (.264 video backup) and press this button again to finish backup. For performing the single image backup (.Y42 single image backup), press  first and then click this button to backup the necessary image.
- C.  **AUDIO CONTROL**
Press this button to turn the audio on or off
- D.  **DISPLAY CONTROL**
Within playback mode, use display control to switch the camera channel.
- E.  **RECORD AND PLAYBACK CONTROL**
Same as front panel controller and remote controller.

4.1 TIME SEARCH

Double click Left button of mouse to trigger play time search.

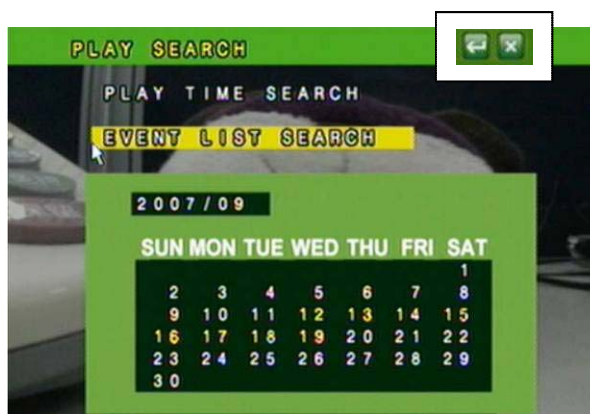


Please set the start and end time to search.

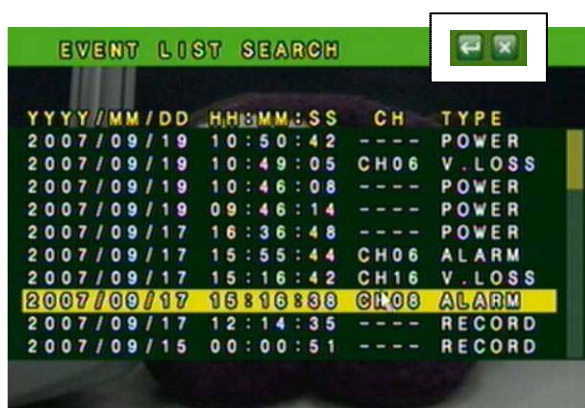


4.2 EVENT SEARCH




Double click Left button of mouse to trigger event search.



Please select the event to playback.



NOTE: Display the type of the event as follows.

POWER	If the DVR got power loss, it will record the date and time of rebooting.
RECORD	If REC button has been pressed, it will record the date and time in the event list.
V.LOSS	When a camera signal is lost, it will record the date, time, and corresponding channel. Moreover, the  icon will display on the corresponding channel.
ALARM	When ALARM is triggered, it will record the date, time, and corresponding channel. Moreover, the  icon will display on the corresponding channel.
MOTION	When MOTION is detected, it will record the date, time, and corresponding channel. Moreover, the  icon will display on the corresponding channel.

5 BACKUP PLAYBACK

SYSTEM REQUIREMENT

CPU: Intel Celeron 1.6G

MEMORY: 256MB.

VGA: 32MB

VGA RESOLUTION: 1024 x 768.

OS: Windows XP / 2000

SUGGESTED REQUIREMENT

CPU: Intel P4 2.8G

MEMORY: 512MB or above

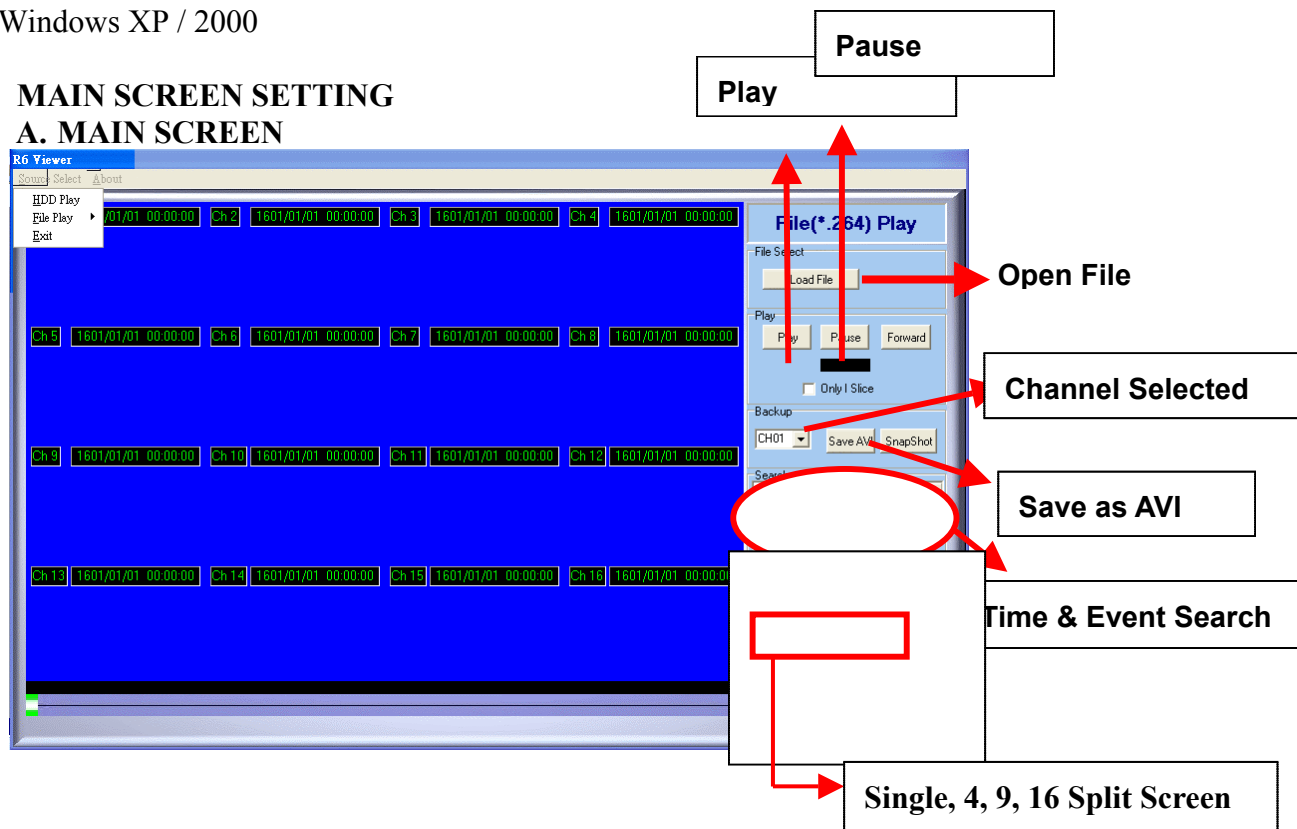
VGA: 64MB or above

VGA RESOLUTION: 1024 x 768

OS: Windows XP / 2000

5.1 MAIN SCREEN SETTING


A. MAIN SCREEN

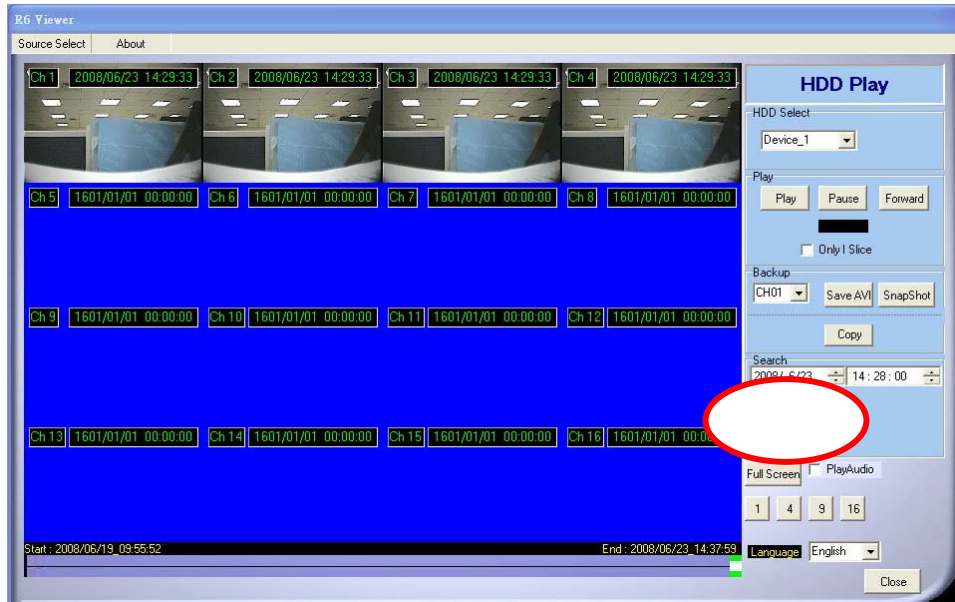


B. HDD PLAY

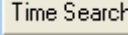
Play about all the data from the Hard disk of DVR or perform the specific Time and Event Search to play.

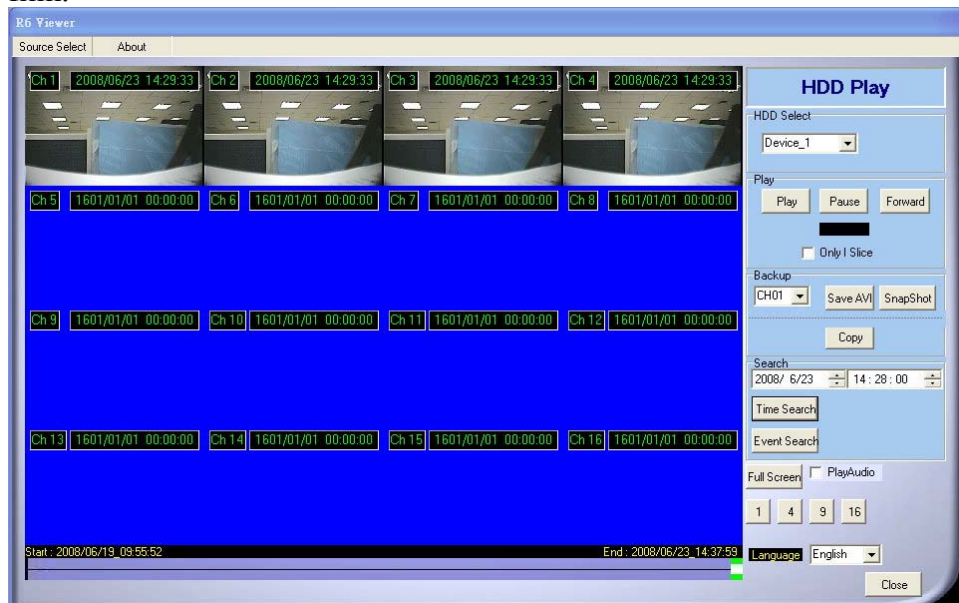
Note: Unload the DVR HDD first and connect to the PC to play the HDD. DVR

software  (R6Viewer.exe) can get from USB Playback, DVD-RW Playback and “Player” within “Others” blank of Network viewing.



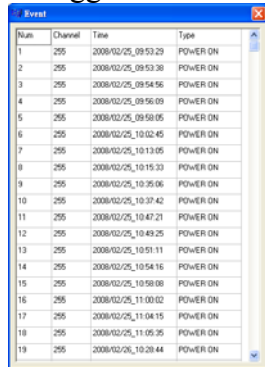
B-1. TIME SEARCH

Insert search Date and Time and then click  to play all the searched film.



B-2. EVENT SEARCH

It will display all the events which are reserved within the DVR HDD after press **Event Search** (Shown in the following) and double click left button of mouse to trigger event.

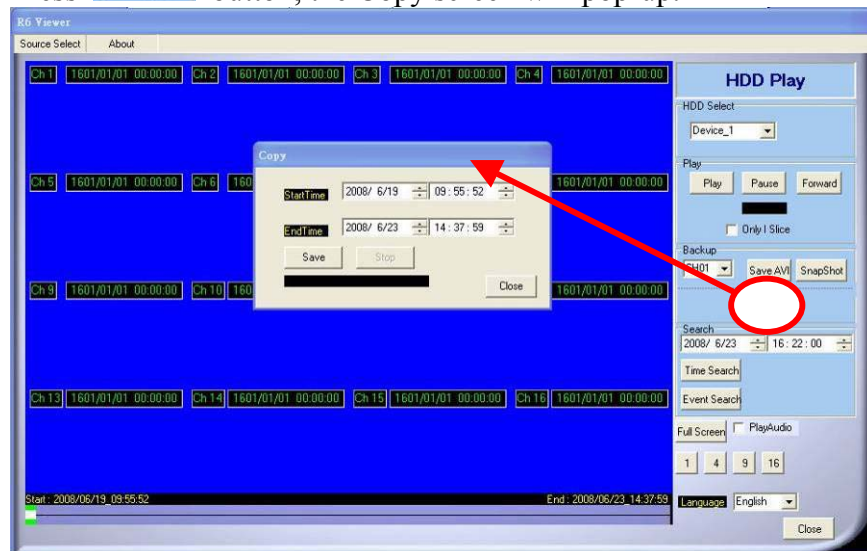


No.	Channel	Time	Type
1	255	2008/02/25_09:53:29	POWER ON
2	255	2008/02/25_09:53:38	POWER ON
3	255	2008/02/25_09:54:56	POWER ON
4	255	2008/02/25_09:56:09	POWER ON
5	255	2008/02/25_09:58:05	POWER ON
6	255	2008/02/25_10:02:45	POWER ON
7	255	2008/02/25_10:13:05	POWER ON
8	255	2008/02/25_10:15:33	POWER ON
9	255	2008/02/25_10:35:06	POWER ON
10	255	2008/02/25_10:37:42	POWER ON
11	255	2008/02/25_10:47:21	POWER ON
12	255	2008/02/25_10:49:25	POWER ON
13	255	2008/02/25_10:51:11	POWER ON
14	255	2008/02/25_10:54:16	POWER ON
15	255	2008/02/25_10:58:08	POWER ON
16	255	2008/02/25_11:00:02	POWER ON
17	255	2008/02/25_11:04:15	POWER ON
18	255	2008/02/25_11:05:35	POWER ON
19	255	2008/02/26_10:28:44	POWER ON

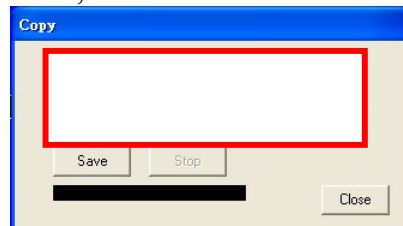
B-3. HDD COPY

Copied and reserved the DVR HDD data to other data storage device.

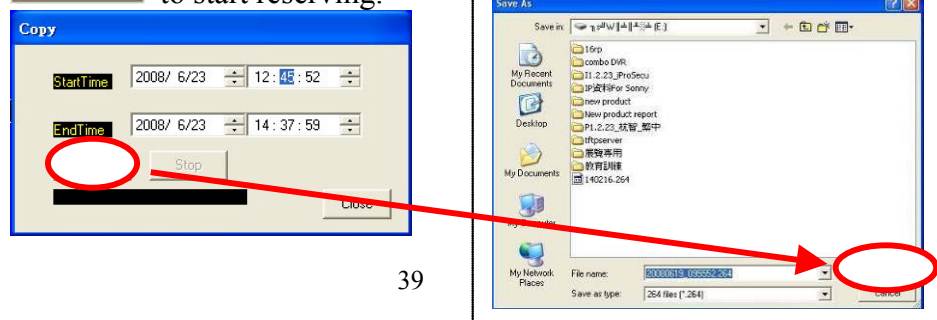
Press **Copy** button, the Copy screen will pop-up.



Then, select the "StartTime" and "EndTime".



After that, press **Save** button to choose the storage destination and press **Save** to start reserving.



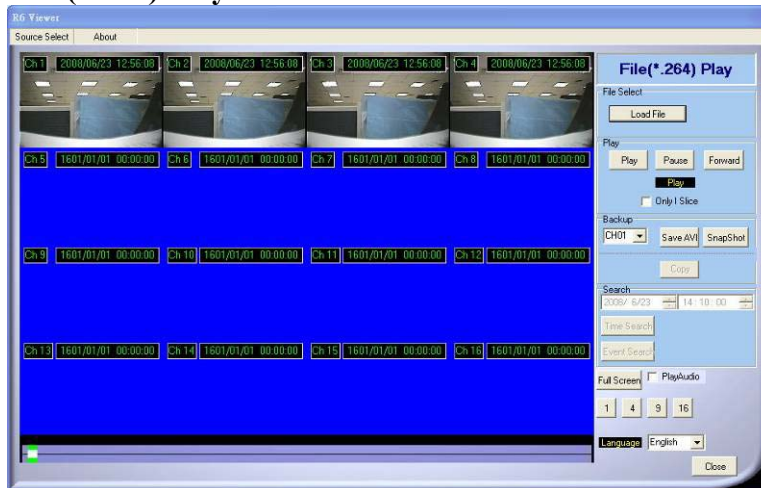
Finally, the complete information will pop-up while finished storage.



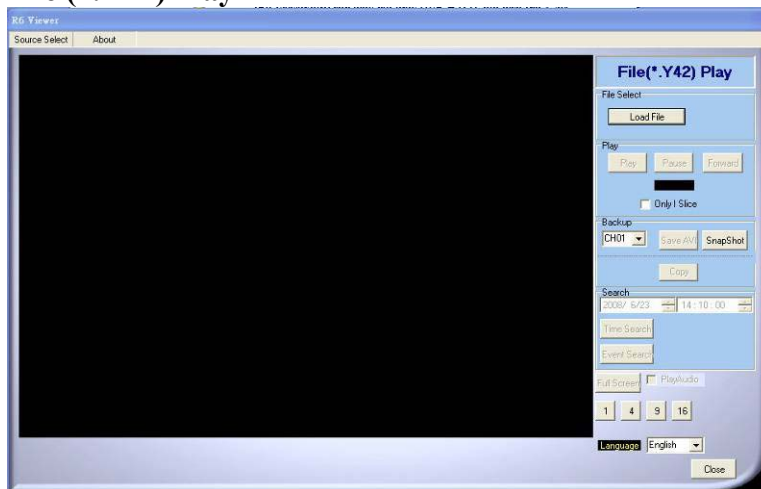
R6Viewer.exe

(R6 Viewer.exe) can play not only DVR H.D.D. but also the *.264 and *.Y42 files which are reserved within the data storage devices. (i.e. CD/DVD disc, pen drive and the PC H.D.D which the data backup from DVR H.D.D)

C. File (*.264) Play



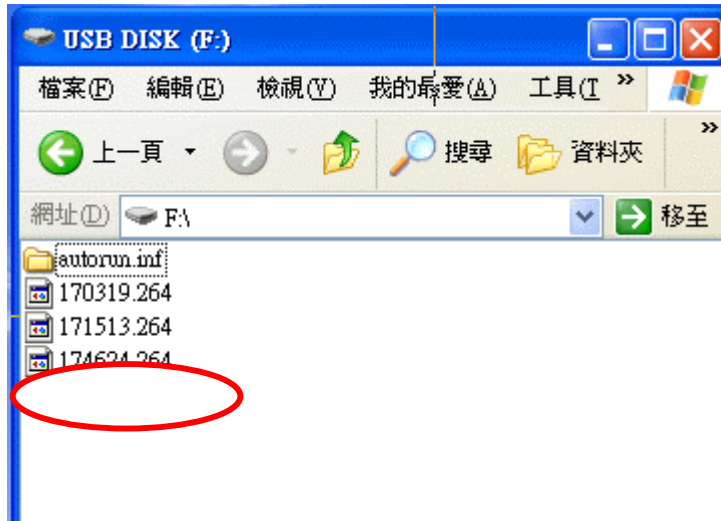
D. File (*.Y42) Play



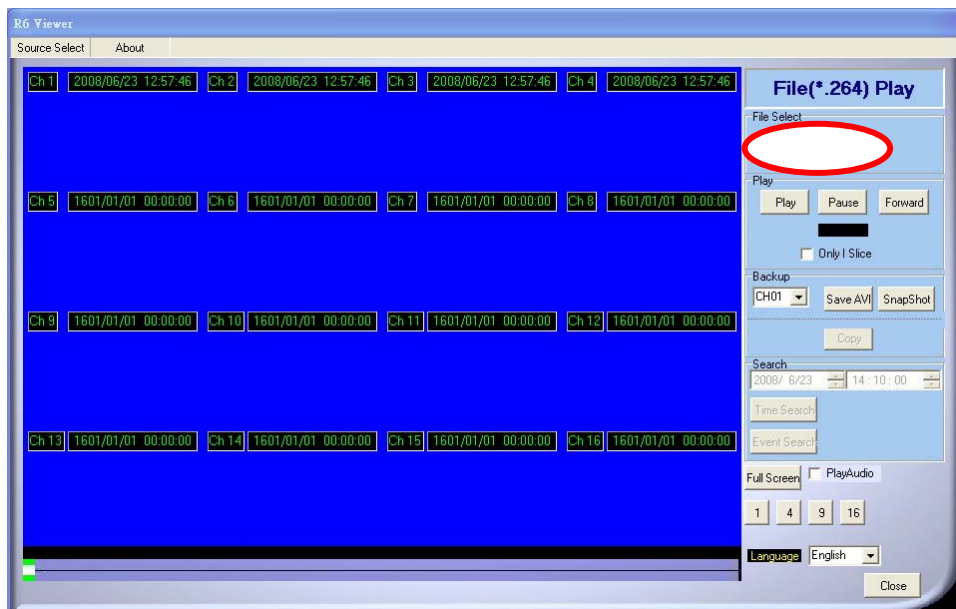
5.2 USB & LOCAL BACKUP FILE PLAYBACK

A. Plug the USB disk into PC or check the local backup folder.

If using USB mode, please double click the player.exe from the pop-up diagram. (As below)

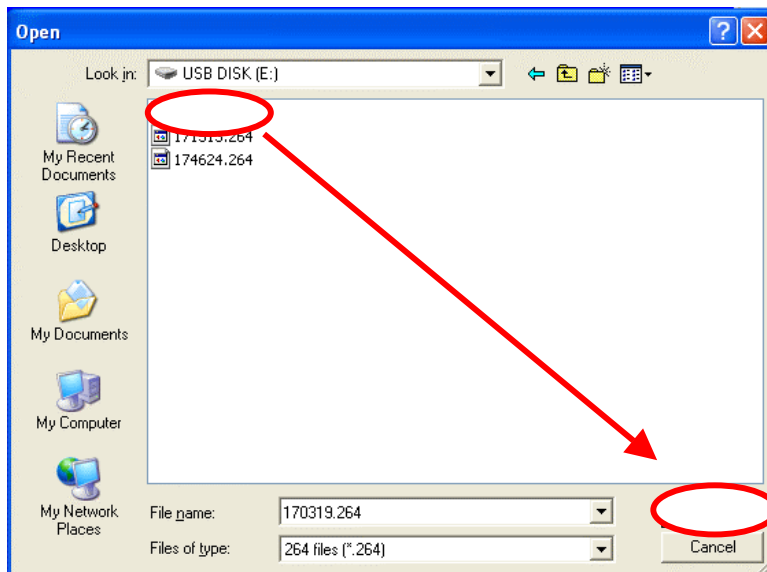


B. The play backup program would appear on the screen, select "Load File".

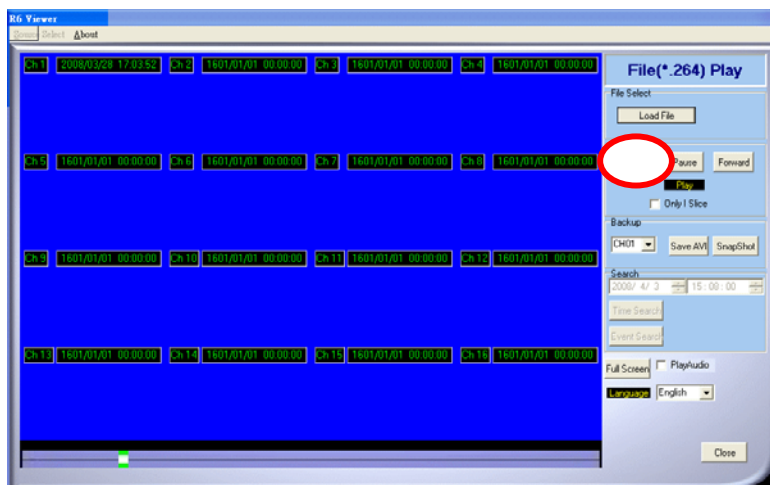


- C. Open the USB disk located driver letter. (Example E:) or the local backup folder, and pick the file to playback.

The backup file will named as the time when backup, as like:
170319.264 will be 17:03:19

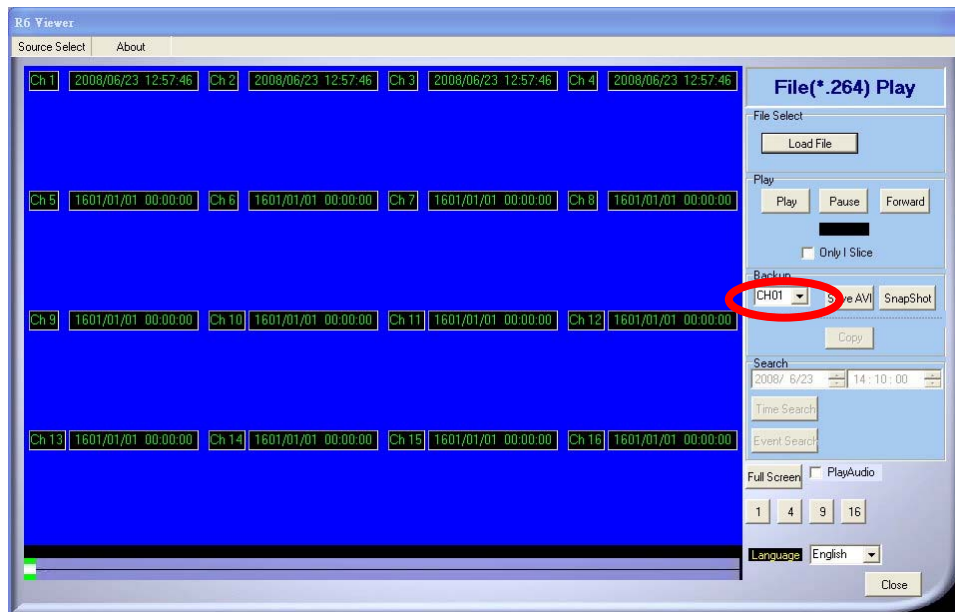



- D. Press the play icon to play the video or still picture.



5.3 BACKUP FILE TO AVI

A. Please select specific channel to backup.



B. During video playback mode please press AVI bottom  to start.

C. Make up a filename and path than press  bottom to start AVI backup.

D. Press AVI bottom  to finish backup.

6 NETWORK VIEWING & PLAYBACK

SYSTEM REQUIREMENT

CPU: Intel Celeron 1.6G

MEMORY: 256MB.

VGA: 32MB

VGA RESOLUTION: 1024 x 768.

OS: Windows XP / 2000

SUGGESTED REQUIREMENT

CPU: Intel P4 2.8G

MEMORY: 512MB or above

VGA: 64MB or above

VGA RESOLUTION: 1024 x 768

OS: Windows XP / 2000

6.1 IP ADDRESS SETUP ON PC SITE

Install cameras inside in LAN or use network cable to connect with PC. This is for IPInstallerEng.exe to set up IP address of cameras. If OS is Windows XP SP2 or above, the following Windows Security Alert will popup. Then, please click on **Unblock**.



Then, IPInstallerEng.exe will popup:
DVR default IP address is 192.168.1.220

IP Installer V2.2

Device lists:

Server Name	IP Address
wenhao_HWS-01HT	192.168.001.239
HDR-04FE 80	192.168.001.225
DVR	192.168.001.220
HWS-04HD	192.168.003.233
热像中_860	192.168.001.218
SHOWROOM 810	192.168.001.155
IP_Camera_rince	192.168.001.160
IP_Camera (POE)	192.168.001.226
IP-Camera	192.168.003.248
IP-Camera	192.168.003.246
Web_Server	192.168.003.222
Web_Server	192.168.003.221
SHOWROOM_16MS	192.168.001.158

Static ☒ DHCP ☐

Name: DVR

IP: 192 168 1 220

Netmask: 255 255 255 0

Gateway: 192 168 1 254

DNS 1: 168 95 1 1

DNS 2: 168 95 192 1

Port1: 80

MAC: 00:0F:0D:10:6B:B2

Search Device Submit

To Change Device Name, IP address, and Gateway:
 1. Select the device on the left side.
 2. Change network parameter on the right side.
 3. Press Submit button.
 4. Press "Search Device" to re-search again.
 5. Double click the device to open it.

Exit

NOTE: Please input correct network parameters without blank spaces.

On Device Lists, it lists all servers. Click on one server and then its IP setting will show on the right side. After editing the parameters and clicking on Submit, the following dialogue box will popup. And, it will reboot the device with new parameters.

IPInstallerEng

Device Rebooting..., Please wait

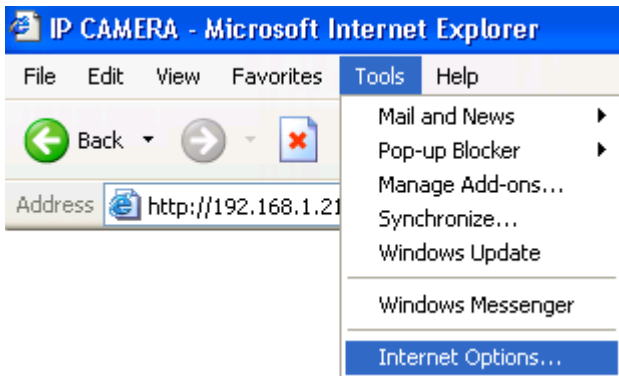
OK

6.2 OPTIONAL MICROSOFT INTERNET EXPLORER SETUP

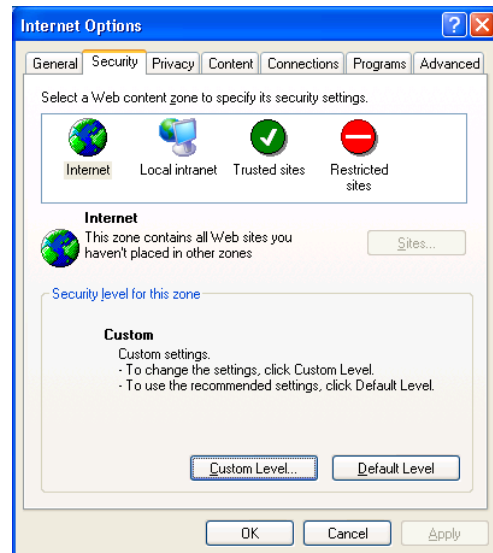
OPTION 1: DISABLE ACTIVEX WARNING

- A. IE → Tools → Internet Options → Security → Custom Level → Security Settings → Download unsigned ActiveX controls → Enable or Prompt (recommend).
- B. IE → Tools → Internet Options → Security → Custom Level → Security Settings → Initialize and script ActiveX controls not marked as safe → Enable or Prompt (recommend).

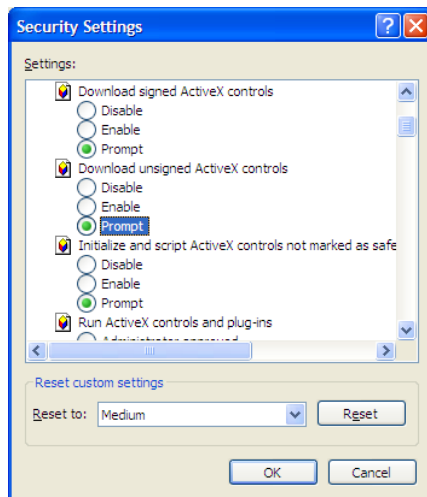
1



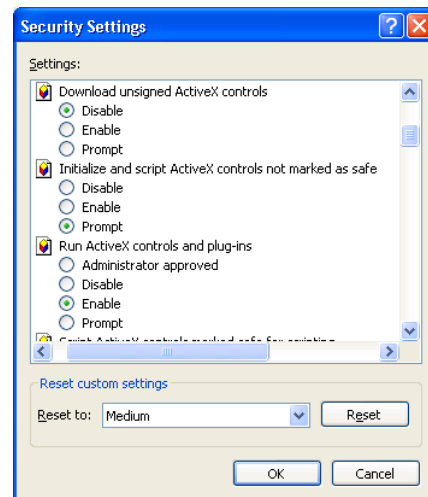
2



3



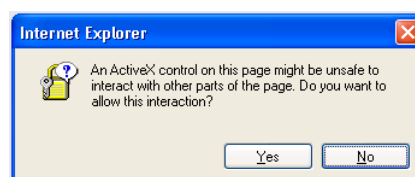
4



5

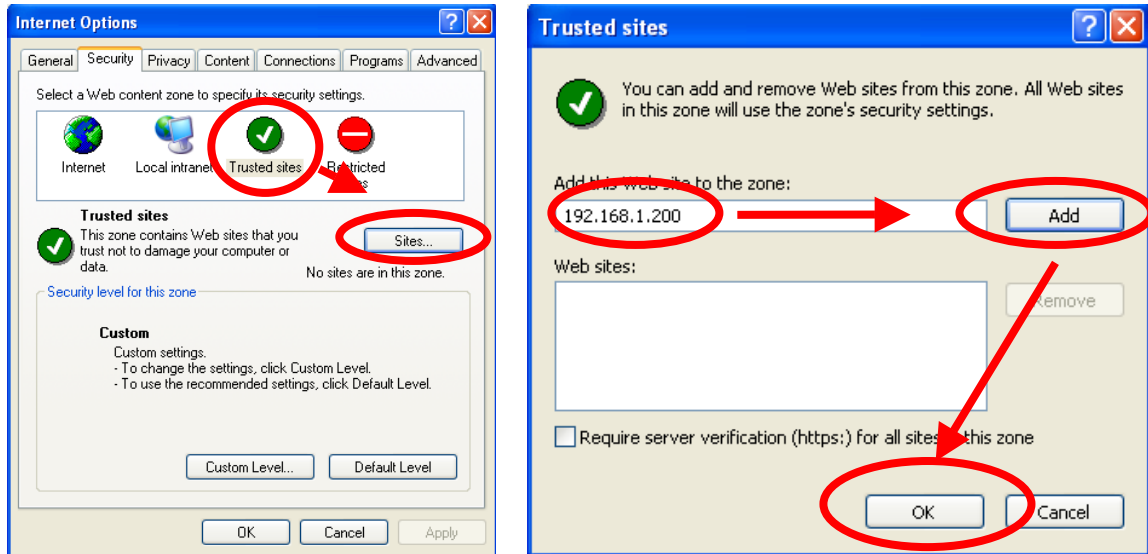
Above three options are all based on select as the prompt.

As indicated in the dialogue box. Please select "YES."



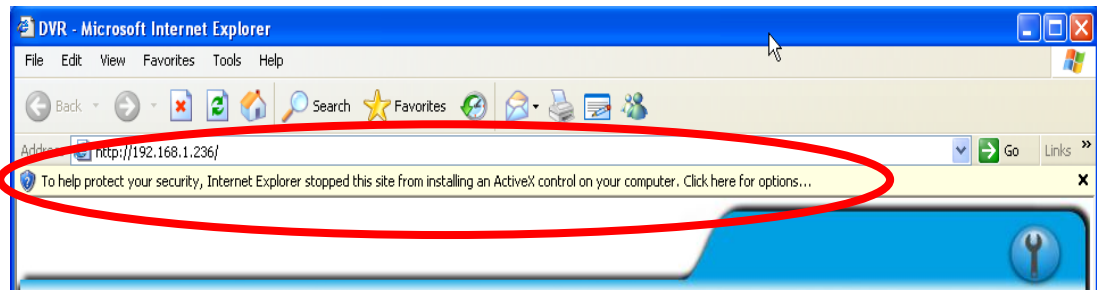
OPTION 2: ADD TO TRUSTED SITES

IE → Tools → Internet Options → Security → Trusted sites → Sites

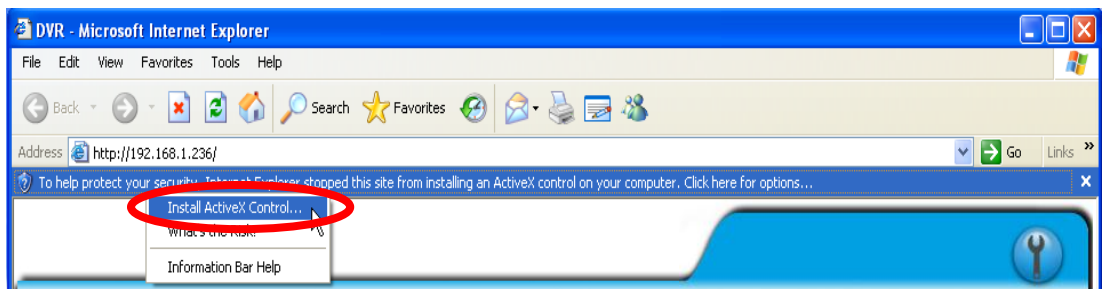


6.3 LOGIN

A. INSTALL ACTIVEX

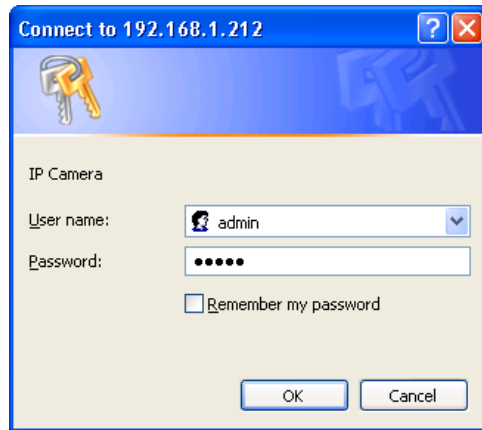


B. START INSTALL ACTIVEX



C. ACCOUNT & PASSWORD LOGIN

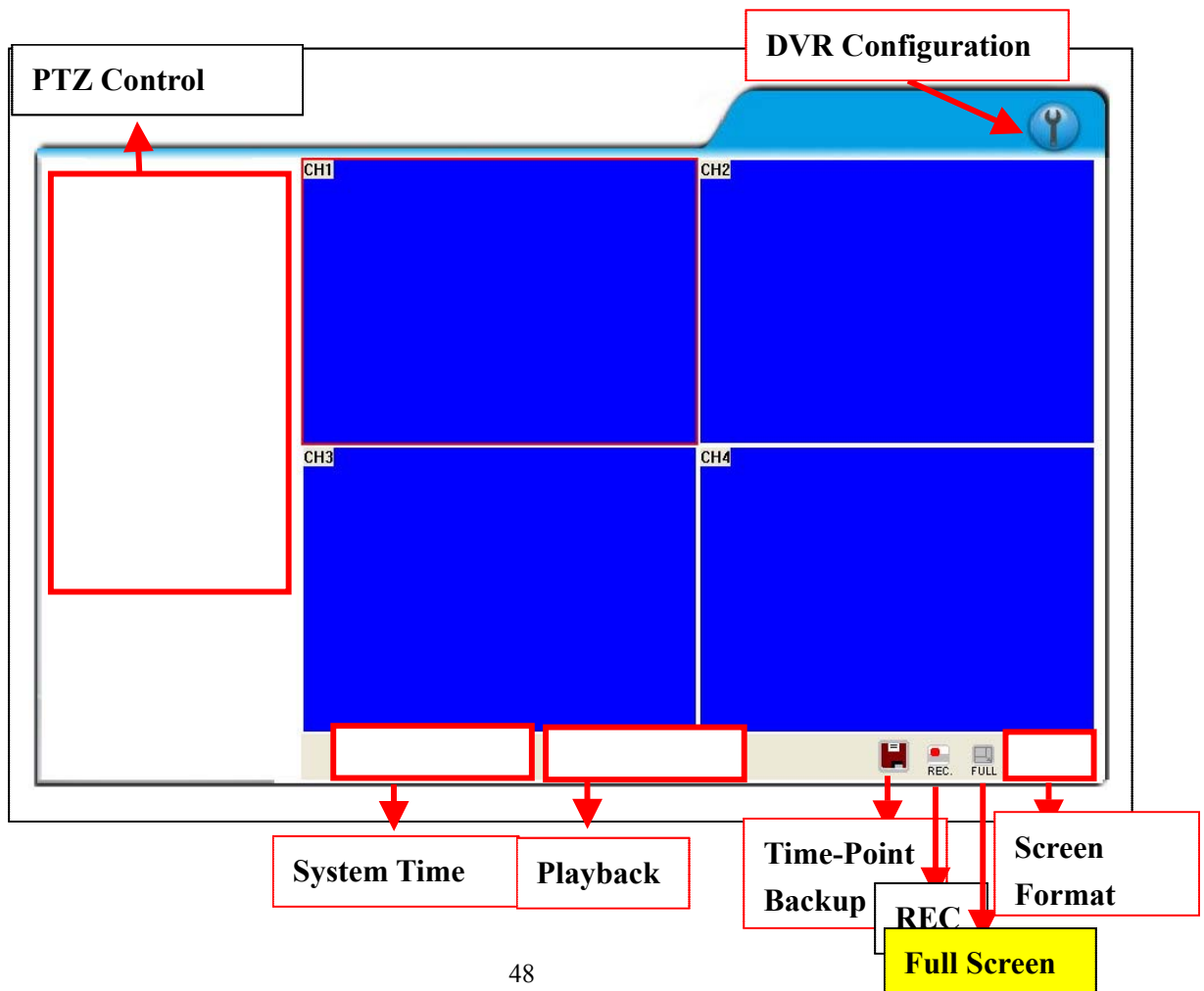
After IP setup and connect to network or LAN, type IP address on IE Browser directly. The following User name & Password Login window will popup.



Default user name: admin
Default password: admin

6.4 REMOTE CONTROL

LIVE VIEWING

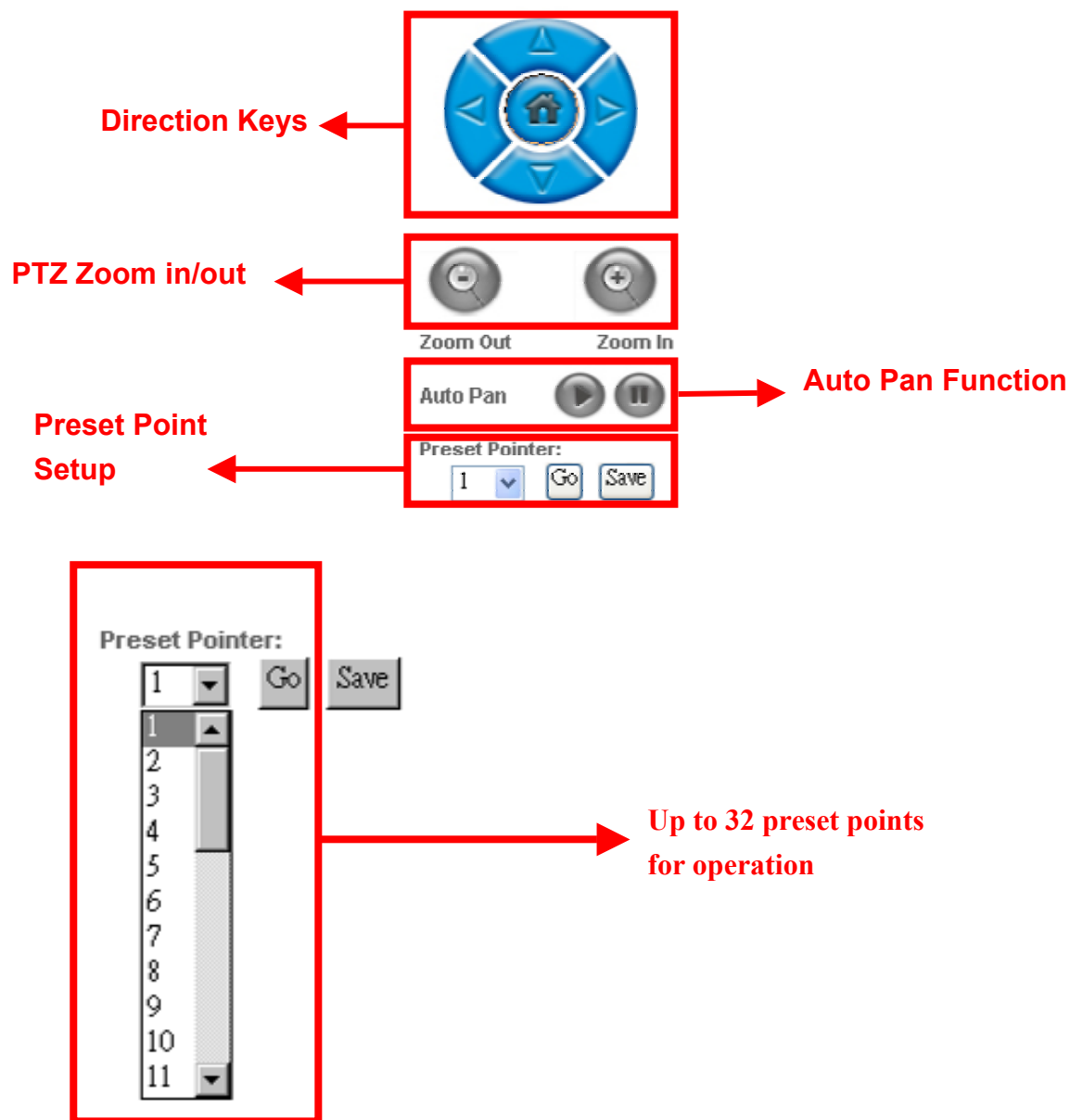


A. DVR Configuration

Get into DVR network menu.

B. PTZ Control

PTZ control function panel




C. SYSTEM TIME

Live viewing mode: The current live viewing time.

D. SCREEN FORMAT


Switch screen format and click twice to switch different channels with full screen.

E.  **Full Screen.** Click again to return.

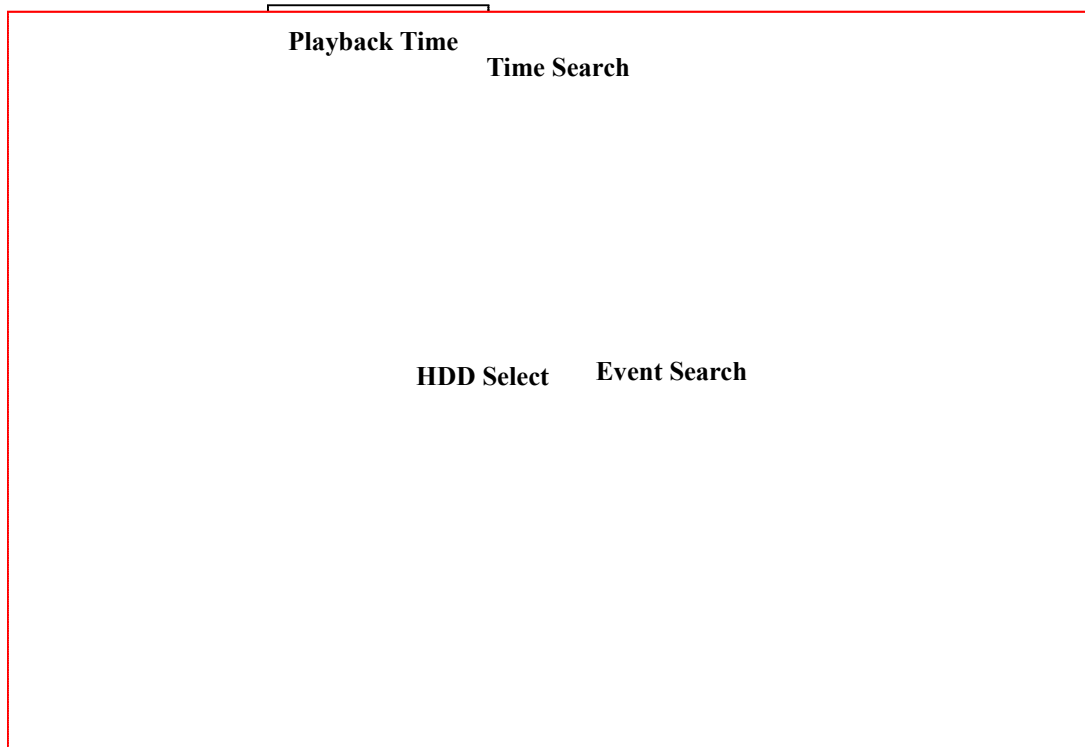
F.  **REC.** Videos are saved as AVI file.

G.  **Playback**

H.  **Time-Point Backup**

Click  and playback window will popup

PLAYBACK by TIME SEARCH & EVENT SEARCH



A. HDD Select

User can select HDD1 or HDD2 for playback

B. Playback Time


User can select the time then press “Time Search” for playback.

C. Time Search

User can select the time then press “Time Search” for playback.

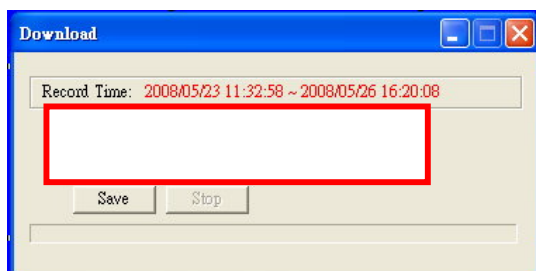
D. Event Search

User can select event item by pressing “Event Search” for playback.

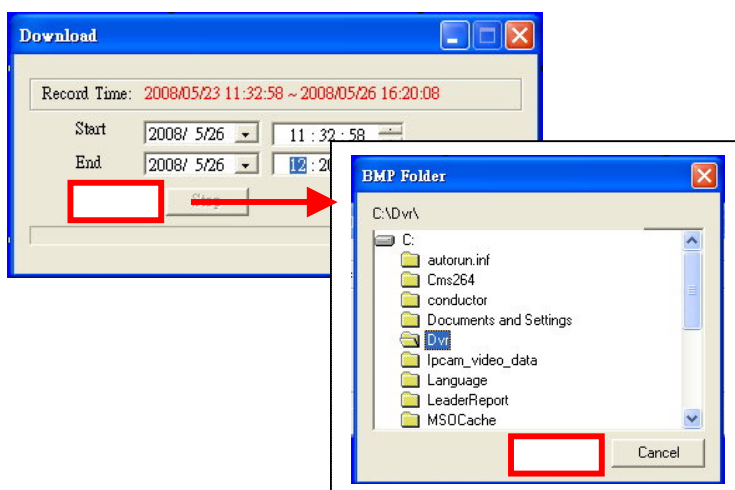
Click  to operate Time-Point backup.

TIME-POINT BACKUP

First, select Start and End backup time which have to among the Record Time.



Then, click **Save** button to select the position on PC where the user is going to backup the data. After that, press **OK** button to start the backup.

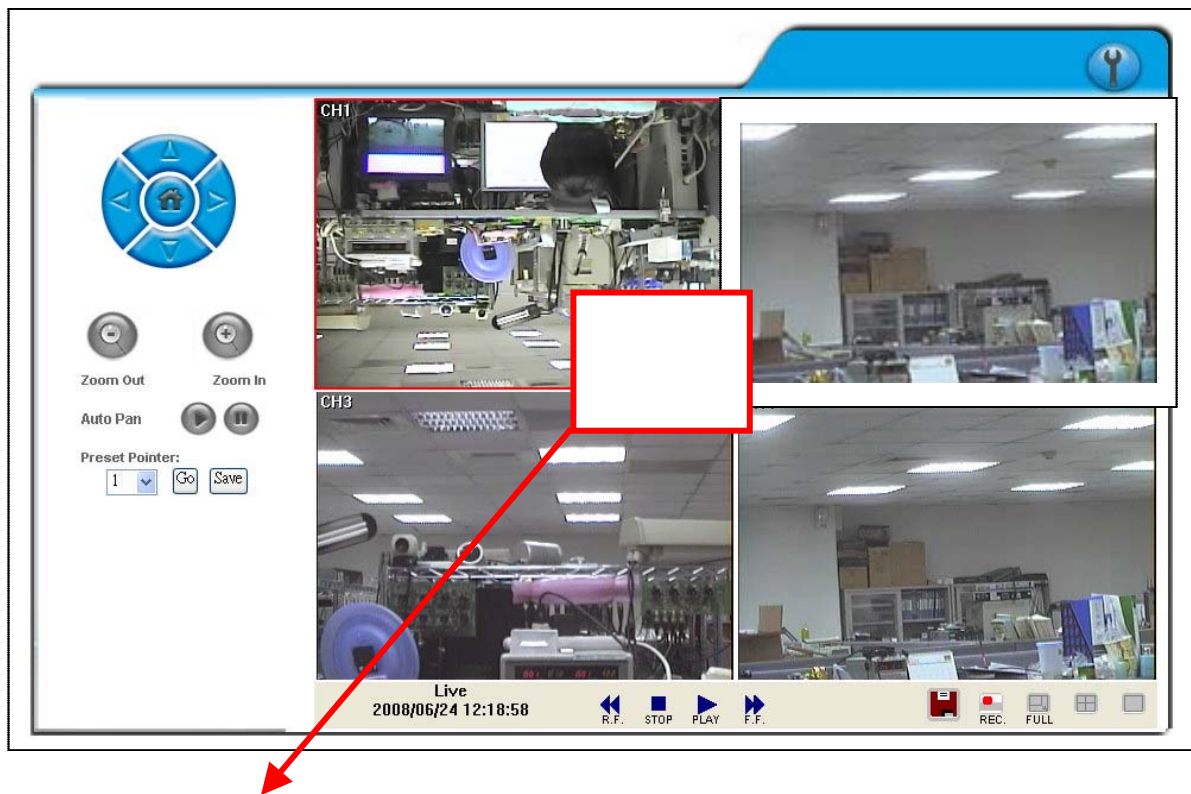


Finally, double-click the left button of the mouse to open the saved backup file. The backup file

will named as the time when start to backup, such as, (20080526113258.264) will be 2008/05/26 11:32:58.



OTHER FUNCTIONS



User can use other functions by clicking the left of mouse

A. Snapshot:

User can save any single picture from image.

B. Performance:

User can select image quality (high, medium & low).

C. Use Overlay:

User can use Overlay function.

D. Play audio:

User can play audio function by channel.

Note: remote user can receive audio from DVR & the audio will be saved with image when processing video backup.

6.5 CONFIGURE

A. System - System Information

System Information	
Server Information	
Server Name:	<input type="text" value="DVR-04CH"/>
MAC Address:	<input type="text" value="00:0f:0d:00:21:a6"/>
Language :	<input checked="" type="radio"/> English <input type="radio"/> 繁體中文 <input type="radio"/> 简体中文
NTP Setting	
Time zone:	<input type="text" value="GMT-08:00"/>
NTP Server:	<input type="text" value="198.123.30.132"/>
Interval:	<input type="text" value="12Hours"/>
<input type="button" value="Apply"/>	

A-1 SYSTEM INFORMATION

SERVER NAME: This name will show on the IP Installer.

LANUGAGE : There are English, Traditional Chinese, and Simplified Chinese.

A-2 NTP Setting

NTP SERVER: Revise the time of DVR via different NTP Server.

Note: Time zone and Interval cannot adjust in here (User can adjust both in DATE and TIME SETUP option of DVR Menu).

B. SYSTEM – USER MANAGEMENT

User Management			
Anonymous User Login			
<input checked="" type="radio"/> YES <input type="radio"/> NO		<input type="button" value="Setting"/>	
Add User			
Username:	<input type="text"/>		
Password:	<input type="text"/>		
Confirm:	<input type="text"/>		
<input type="button" value="Add/Set"/>			
User List			
Username	User Group	Modify	Remove
admin	Administrator	Edit	

User Management provides 3 levels of limits of authority: Administrator (the highest), User, and Guest.

Administrator: Possessing the highest level of authority to operate full functions within network.

User: Having Live Image and Video Playback authority. Moreover, PTZ controlled is included as well.

Guest: Only have Live Image authority.

Default administrator account: Username: admin Password: admin

B-1. ANONYMOUS USER LOGIN:

YES: Accept anonymous user login without password as guest login.

NO: Anonymous login unacceptable.

B-2. USER MANAGEMENT:

Add: Input Username and Password and then click on **Add/Set** to save.

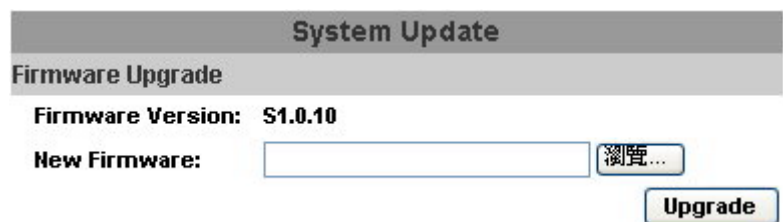
Modify: Click on selected User name on User List and the following window will popup. After inputting Password and Confirm Password, click on **OK**.

Remove: Click on selected User name on the user list and click on **Remove**.

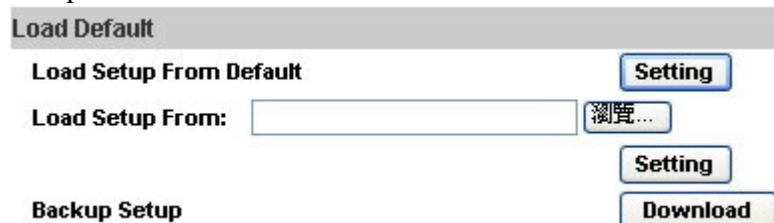


C. SYSTEM / SYSTEM UPDATE

C-1. Firmware Upgrade: Click on the “Browse” button to select the latest firmware and then press “Upgrade” button to upgrade the firmware.



C-2. Load Default: There are three kinds of Settings. One is Load Setup From Default, another is Load Setup From and the other is Backup Setup.



Load Setup From Default: Press “Setting” button to load factory default.

Load Setup From: Click on “Browse...” button to select DVR setting file and then press “Setting” button to upload the setting file to DVR.

Backup Setup: Click on “Download” button to download the DVR setting file into the specific storage device.

D. NETWORK – IP SETTING

IP Setting	
IP Assignment	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address:	<input type="text" value="192.168.1.231"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Gateway:	<input type="text" value="192.168.1.254"/>
DNS 0:	<input type="text" value="168.95.1.1"/>
DNS 1:	<input type="text" value="168.95.192.1"/>
Port Assignment	
Web Page Port:	<input type="text" value="80"/>
UPnP	
UPnP:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
<input type="button" value="Apply"/>	

D-1. IP ASSIGNMENT

DHCP: In Dynamic Host Configuration Protocol (DHCP) mode, DHCP server will get setting done automatically.

STATIC IP: Please input IP address, Subnet Mask, and Gateway based on network environment.

D-2. PORT ASSIGNMENT

With IP Share (Router), the following Ports needed to be adjusted in case of conflict.

D-3. UPnP

If UPnP service is enabled on your computer, the DVR will automatically be detected and a new icon will be added to “My Network Places”. However, if UPnP service is disabled, the DVR will not be detected automatically.

Note: UPnP must be enabled on your computer.

E. NETWORK – PPPoE

PPPoE	
PPPoE Setting	
<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	
Username:	<input type="text"/>
Password:	<input type="password"/>
Send mail after dialed	
<input type="checkbox"/> Enabled	
Subject:	<input type="text"/>
<input type="button" value="Apply"/>	

E-1. PPPoE SETTING

Click on Enabled to enable ADSL dial function.

Username: Username for ADSL account.

Password: Password for ADSL account.

After dialed successfully, new IP address will appear.

E-2. SEND MAIL AFTER DIALED

Click on Enabled to enable SEND MAIL AFTER DIALED function.

E-3. SUBJECT

Mail subject.

F. NETWORK / DDNS SETTING

DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider:

Hostname:

Username:

Password:

Schedule Update: Minutes

State

Apply

Note:

1. **Schedule Update:** Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

Click on Enabled to enable DDNS function.

F-1. DYNDNS.ORG

DDNS

DDNS Setting

☒ Enabled ☐ Disabled

Provider:

Hostname:

Username:

Password:

Schedule Update: Minutes

State

Apply

DDNS SETTING - DYNDNS.ORG

PROVIDER: Select dyndns.org

HOSTNAME: The registered hostname in DYNDNS.ORG.

USERNAME: The registered username in DYNDNS.ORG.

PASSWORD: The registered password in DYNDNS.ORG.

SCHEDULE UPDATE: A period of time to update IP address.

STATE

1. Updating: Information update.
2. Idle: Stop service.
3. DDNS registered successfully, now log by
<http://<username>.ddns.camddns.com>: Registered successfully.
4. Updating Failed, the name is already registered.
5. Updating Failed, please check your internet connection.

F-2. DDNS.CAMNND.S.COM

DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider:

Username:

Schedule Update: Minutes

State

Apply

Note:

1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

DDNS SETTING – DDNS.CAMDDNS.COM

PROVIDER: Select ddns.camddns.com

USERNAME: The registered username in DDNS.CAMDDNS.COM.

SCHEDULE UPDATE: A period of time to update IP address.

STATE

1. Updating: Information update.
2. Idle: Stop service.
3. DDNS registered successfully, now log by
http://<username>.ddns.camddns.com: Registered successfully.
4. Updating Failed, the name is already registered.
5. Updating Failed, please check your internet connection.

DDNS Setting Steps:

Press ① “ENABLE” option to enable DDNS function and select ②

“ddns.camddns.com” of the provider drop down list which is suggested to use. In the following, insert ③ the username which the user wants to apply

(i.e. DVR_GODDNS in here). After that, click ④ “Apply” button to apply a DDNS domain name.

The screenshot shows the DDNS Setting interface. At the top is a header 'DDNS'. Below it is a sub-header 'DDNS Setting'. There is a checkbox labeled 'Disabled' which is currently unchecked. A red box with the number '1.' points to this checkbox. Below the checkbox are three input fields: 'Provider:' with a dropdown menu, 'Username:' with a text box, and 'Schedule Update:' with a text box containing '60' and a label 'Minutes'. A red box with the number '2.' points to the 'Provider:' dropdown, and a red box with the number '3.' points to the 'Username:' text box. Below these fields is a 'State' section with a text box containing 'Updating...'. A red box with the number '4.' points to an 'Apply' button located at the bottom right of the 'State' section.

Finally, the DVR domain name^⑤(http://DVR_GODDNS.ddns.camddns.com) will be shown on the state block.

DDNS

DDNS Setting

☒ Enabled ☐ Disabled

Provider:

Username:

Schedule Update: Minutes

State

5.

Apply

- NOTE:**
1. If the user selects another provider which is ddns2.ydsdvr.com, all of the setting steps are the same with ddns.camddns.com setting.
 2. However, if dyndns.org provider is selected, please go to www.dyndns.org website to register the account first. The user has to fill in the username, password and hostname for applying the account. After the user applied the account successfully, the dyndns.org will give the user a complete DDNS domain name.
 3. If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended.

G. NETWORK / Mail & FTP

Click on “Motion” or “Alarm” option to enable Mail Setting and FTP Setting function.

Mail & FTP

Mail Setting: ☐ Motion ☐ Alarm

Mail Server:

Username:

Password:

Sender's Mail:

Receiver's Mail:

Bcc Mail:

Event Subject:

FTP Setting: ☐ Motion ☐ Alarm

FTP Server:

Username:

Password:

Port:

Path:

Apply

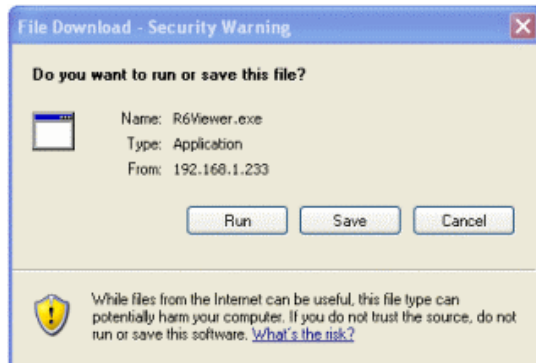
Mail Server: The IP address of Mail Server (i.e. mail.huntelec.com.tw).
Username: The username while log in to the mail server.
Password: The password while log in to the mail server.
Sender's Mail: The sender's account when send the mail via this mail server.
Receiver's Mail: The receiver's mail address.
Bcc Mail: The receiver's mail address for Bcc Mail.
Event Subject: The subject of this mail. (Default value is ALARM MAIL)

FTP Server: The IP address of FTP Server.
Username: The username while log in to the ftp server.
Password: The password while log in to the ftp server.
Port: The port number of file transmission. (Default value is 21)
Path: The ftp path where the user wants to reserve the information.

Finally, click on **Apply** button to reserve the setting.

H. OTHERS / Player Downloaded

User can click "Run" button to download the player to local PC.



I. OTHERS / RTSP

User can click Video Quality drop down list to change the video quality. There are Best, High, Standard, Medium and Low options.



RTSP Setting	
Video Format:	MPEG4
Video Quality:	High ▼
3GPP Path:	CH--
For Example:	
rtsp://IP/CH01	The Live CH1 Stream
rtsp://IP/CH02	The Live CH2 Stream

<div style="border: 1px solid black; height: 40px; width: 350px;"></div>	
<div style="border: 1px solid black; padding: 2px 10px;">Apply</div>	

7 3GPP APPLICATION & SETTING

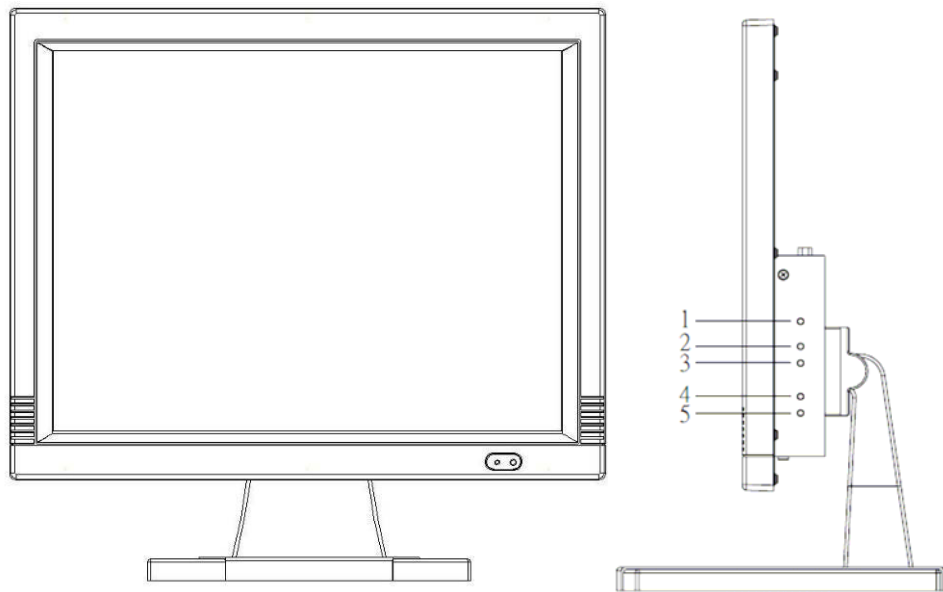
3GPP (also known as 3rd Generation Partnership Project) is a corporation which formulate 3rd-generation communication standard specification. Via this wireless communication protocol, the 3G mobile can perform the remote control. The following example is operated by Sony Ericsson 3G mobile phone:

1. Press MENU KEY to get into menu.	2. Select Internet services
	
3. In the Internet services page, press More KEY	4. Select Enter address , and press Select KEY
	
5. Select New address , and press Enter KEY	6. Fill in address rtsp:// <<IP>>/channel (rtsp://220.137.65.246/CH03) and press Go To KEY.
	

7. “ Connected to media server ” will appear	8. Success with vivid image
	

- * 1. 3GPP BANDWIDTH: Minimum 30kbit /sec. per channel.
 2. CONNECTION NUMBERS: Maximum 16 people per channel.

8 OPERATING INSTRUCTIONS & OSD ARCHITECTURE




1. Power


Monitor power ON / OFF. At OFF mode, monitor will be at standby status.

2. 3. Adjust /

Increase or decrease the value on OSD menu.

and as selection the OSD function item.

 Increase value on the OSD Menu

 Decrease value on the OSD Menu.

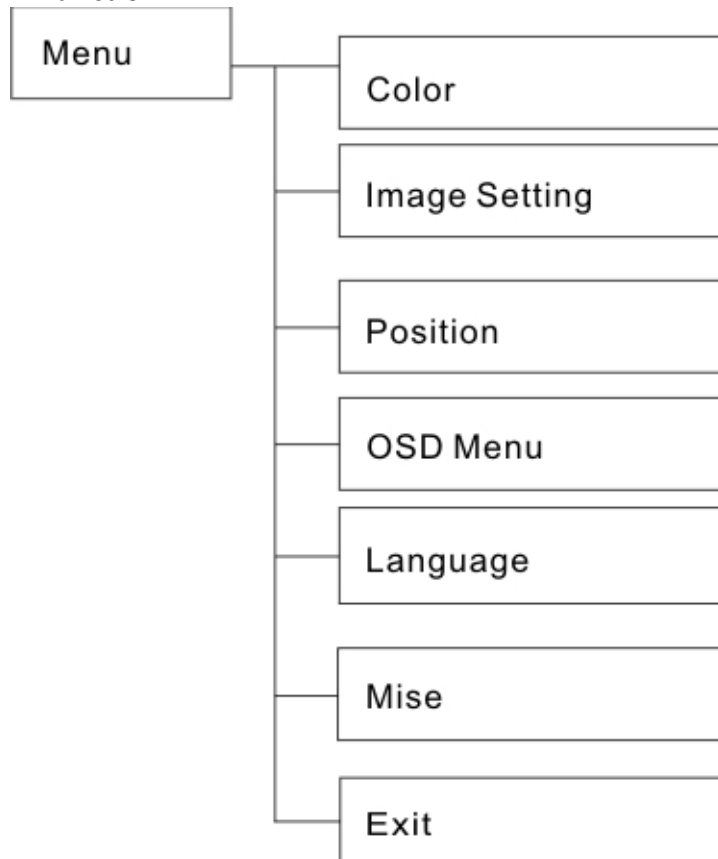
4. Menu

OSD main menu selection, and press again into the osd menu.

5. Source

DVR/ PC switch options.

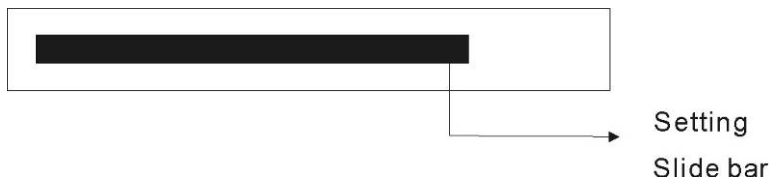
OSD Function



Color:

Contrast

Adjusts background black level of the screen image.
Example:



Brightness

Adjusts fore ground white level of the screen image.

Color Adjust

Adjusts R.G.B color deepness for users.

Color Temp

Adjusts color temperatures for users.
USER-R/G/B, 9300K, 6500K, 5800K, sRGB.

Back
Exit OSD menu.

Image Setting:

Clock
Adjusts image distortion appearing as vertical or “noise” on the screen.

Phase
Adjusts image distortion appearing as horizontal or “noise” on the screen.

Gamma
Adjusts image deepness of the screen images.

Sharpness
Adjusts the clarity and focus of the screen images.

Back
Exit OSD menu.

Position:

H.position
Move the screen image left or right.

V.position
Move the screen image up and down.

Back
Exit OSD menu.

OSD Menu:

H.pos
Move the osd menu position left or right.

V.pos
Move the osd menu position up or down.

OSD Timer
Setting the osd menu display time.

Back
Exit OSD menu.

Language:

Allows you to choose among 7 languages as
English, French, German, Spanish, Traditional Chinese
Simplified Chinese, Japanese.

Misc:

Signal source
Select the input signal VGA or DVI.

Reset
Returns all controls back to factory setting.

Volume adjust
Control built-in speakers'

Back
Exit OSD menu.

APPENDIX A: RECORDING TIME LAPSE (HOURS)

CIF

CIF	H.264				
80GB HDD					
FPS(Picture Per Sec.)		120	60	30	15
Record Quality	Best	60	120	240	480
	High	129	258	516	1032
	Middle	290	580	1160	2320
	Low	580	1160	2320	4640
160GB HDD					
FPS(Picture Per Sec.)		120	60	30	15
Record Quality	Best	120	240	480	560
	High	258	516	1032	2064
	Middle	580	1160	2320	4640
	Low	1160	2320	4640	9280
250GB HDD					
FPS(Picture Per Sec.)		120	60	30	15
Record Quality	Best	180	360	720	1440
	High	387	774	1548	3096
	Middle	580	1160	2320	4640
	Low	1160	2320	4640	9280
400GB HDD					
FPS(Picture Per Sec.)		120	60	30	15
Record Quality	Best	306	612	1224	2448
	High	647	1294	2588	5176
	Middle	1456	2912	5824	11684
	Low	2912	5824	11684	23296
500GB HDD					
FPS(Picture Per sec.)		120	60	30	15
Record Quality	Best	360	720	1224	2448
	High	774	1548	2588	5176
	Middle	1160	2320	5824	11684
	Low	2320	4640	11684	23296
750GB HDD					
FPS(Picture Per sec.)		120	60	30	15
Record Quality	Best	540	1080	2160	4320
	High	1161	2322	4644	9288
	Middle	1740	3480	6960	13920

	Low	3480	6960	13920	27840
1T HDD					
FPS(Picture Per sec.)		120	60	30	15
Record Quality	Best	720	1440	2880	5760
	High	1548	3096	6192	12384
	Middle	2320	4640	9280	18560
	Low	4640	9280	18560	37120

Half D1

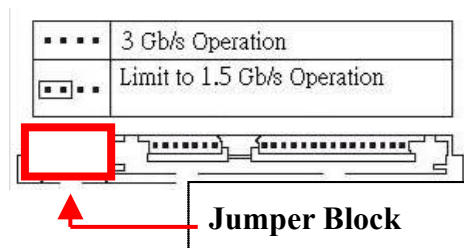
Half D1	H.264				
80GB HDD					
FPS(Picture Per Sec.)		60	30	15	
Record Quality	Best	46	92	184	
	High	66	132	264	
	Middle	94	188	376	
	Low	186	372	744	
160GB HDD					
PPS(Picture Per Sec.)		60	30	15	
Record Quality	Best	92	184	368	
	High	132	264	528	
	Middle	188	376	752	
	Low	372	744	1488	
250GB HDD					
FPS(Picture Per Sec.)		60	30	15	
Record Quality	Best	145	290	580	
	High	208	416	832	
	Middle	290	580	1160	
	Low	485	970	1940	
400GB HDD					
FPS(Picture Per Sec.)		60	30	15	
Record Quality	Best	233	466	932	
	High	322	645	1288	
	Middle	466	932	1864	
	Low	776	1552	3100	
500GB HDD					
FPS(Picture Per Sec.)		60	30	15	
Record Quality	Best	290	580	1160	
	High	416	832	1664	
	Middle	580	1160	2320	

	Low	970	1940	3880
750GB HDD				
FPS(Picture Per Sec.)		60	30	15
Record Quality	Best	435	870	1740
	High	624	1248	2496
	Middle	870	1740	3480
	Low	1455	2910	5820
1T HDD				
FPS(Picture Per Sec.)		60	30	15
Record Quality	Best	580	1160	2320
	High	832	1664	3328
	Middle	1160	2320	4640
	Low	1940	3880	7760

APPENDIX B: HDD COMPATIBLE TABLE

Brand	Model	Capacity	Speed (RPM)
SEAGATE	ST380815AS	80G	7200 10
	ST3160815AS	160G	7200 10
	STM3250820AS	250G	7200 10
	ST3400620AS	400G	7200 10
	ST3750640AS	750G	7200 10
	ST310005N1D1AS-RK	1000G	7200
WD	WD2500AAKS	250G	7200
HITACHI	HDS721616PLA380	160G	7200
	HDT725025VLA380	250G	7200
	HDT725032VLA360	320G	7200
	HDP725050GLA360	500G	7200
Last Update Date	2008/3/24		

* Please use **SATA I** Hard Disk and setup the **Jumper Block** to 1.5 Gb/s Operation. As the following image,



APPENDIX C: ERROR MESSAGE LIST

ERROR MESSAGE	ERROR STATUS & REASON	NOTE
DISK ACCESS ERROR!	H.D.D. Data structure Un-moral. Data does not record into DVR or bad sector on DVR H.D.D. Please install another H.D.D. and perform the record again.	
UPDATE FILE ERROR!	Please re-download the update file and update again.	
FIRMWARE UPGRADE FAILED	Please reboot the DVR and upgrade the firmware. Please send the DVR back to repair when DVR is disability.	
MEDIA ACCESS FAIL!	The USB file format is incorrect (Please format the pen drive to FAT32) or Pen Drive is setup to ONLY READ mode (Please annul ONLY READ mode) when reserve the data by using Pen Drive. The data cannot be burn into CD/DVD disc. Please change another CD/DVD disc and backup the file in CD/DVD disc storage.	
NO FILE!	There is no upgrade file within Pen Drive or the name of upgrade file does not correspond with DVR format. Please adjust the upgrade file name based on the following information. 16CH -> UpdateR.bin 08CH -> Update8.bin 04CH -> Update4.bin	
USB DEVICE NOT FOUND NO USB	Pen Drive undetected. Please Unplug the Pen Drive and plug it again.	
BACKUP START TIME ERROR	Backup start time error.	
BACKUPEND TIME ERROR	Backup end time error.	
DISK ERROR	The data cannot be burn into CD/DVD disc. Please change another CD/DVD disc and backup the file.	
FAN FAILED	Fan Error Warning.	
NO LOG DATA	No Events Record.	
SCHEDULE RECORD	The condition is caused by trying to stop recording when perform the schedule record. Please setup the record to manual mode and then stop the record.	
PLEASE SELECT ONE CAMERA	The message will be shown while using the ZOOM function under split screen condition. Please switch the screen into full screen mode and then operate the ZOOM function.	

Hard disk storage location map

